

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

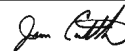
**Assessment Report
Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Preparatory Surveys, Geophysical, Drilling

TOTAL COST: 675,975.00

AUTHOR(S): Jim Cuttle

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

YEAR OF WORK: 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5437877

PROPERTY NAME: Trout

CLAIM NAME(S) (on which the work was done): Winnie, Maggie, Jocelyn, Maren, Brook, T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14

COMMODITIES SOUGHT: Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 93F 044

MINING DIVISION: Omineca

NTS/BCGS: NTS 93F 10

LATITUDE: 53 ° 39 '32 " LONGITUDE: 124 ° 44 '33 " (at centre of work)

OWNER(S):

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2)

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PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Cretaceous, Eocene, Ootsa volcanics, Kasalka volcanics, Endako Group, graben, epithermal, breccia, trachyte, conglomerate, alluvial cover

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 32229, 16733, 16539, 13973

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization 78	380643-646, 601040, 601040, 780743		189,773.00
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock 740 rock, Au, Ag + 36 element ICP			
Other			
DRILLING (total metres; number of holes, size)			
Core 2019 metres in 10 holes. HQ and NQ	380643, 380644, 601040		279,121.00
Non-core			
RELATED TECHNICAL			
Sampling/assaying 70 trench samples, 670 core samples	380643, 380644, 601040		22.076.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grld (kilometres) 78			72,810.00
Topographic/Photogrammetric (scale, area) Satellite imagery 6900 hectares	All claims list on page 1		5,625.00
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres) 206 in 8 trenches	380643, 380644		22,446.00
Underground dev. (metres)			
Other			
		TOTAL COST:	675,976.00

Assessment Report - 2012 Field Work

TROUT MINERAL PROPERTY

Omenica Mining Division, Nechako Area

Central British Columbia

CANADA

(Longitude 124° 44', 56" W, Latitude 53° 39', 11" N)

NTS 93F/10

**BC Geological Survey
Assessment Report
34163**

By:

Jim Cuttle, P.Geo.

LANDMARK GEOLOGICAL Inc.

86 Cloudburst Road

Whistler, BC, V0N 1B1

April 18, 2013

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APPENDIX V Drill core assay repeats – ALS Canada Ltd. (Certificates)

APPENDIX VI Induced Polarization Survey 2012 (Field report and 3D sections)

1. SUMMARY

Over the last two years seven potential exploration targets were identified on the Trout property using a combination of airborne magnetic trends, ultra-trace soil geochemistry, rock chip sampling and IP geophysical surveys. The objective of these surveys was to identify potential targets located either below a 20 to 40 metre thick post mineral basalt cap or hidden by extensive unconsolidated glacial overburden.

The seven targets all occur inside or along the edges of two parallel northeast trending fault structures forming the boundary of a 3 kilometre long by 1.2 km wide graben structure located in the northeastern part of the Trout property. Structures such as these are well documented for hosting both bulk and high-grade bonanza style gold and silver deposition.

During 2012 Venerable Ventures completed 78 line kilometres of line cutting, 78 line kms of 3D IP resistivity and chargeability surveying, opened 8 backhoe trenches, re-sampled historical drill core and completed 2019 metres of core drilling in 10 holes.

Four of the seven target areas originally identified by the Company known as the Cap, Camp, Camp (North) and Discovery zones were partially tested in 2012. These are located in the northeastern portion of the property.

Highlights from the Camp and Camp North zones include trench assay results of 21.17m grading 0.42 g/t gold (TR-B) and drill core results of 47.82 metres grading 0.33 g/t gold (TR12-05). Details of this work and other survey results are included in this report.

Total expenditure in 2012 by Venerable Ventures was \$675,975.83

2. PROPERTY LOCATION and DESCRIPTION

The Trout property comprises nineteen mineral tenure claims covering a total area of 6926 hectares, located on the Nechako Plateau in north central British Columbia. The property is positioned approximately 70 kilometres south-west of the town of Vanderhoof (124° 45' longitude, 53° 39' latitude) between the Nechako River and Knewstubb Lake in the middle of the Big Bend Creek topographic map sheet (1:50,000, NTS 93F/10). Vanderhoof (population 5000) is on Highway 16 about 100 kilometres west of Prince George, British Columbia's largest northern city (population 83000).

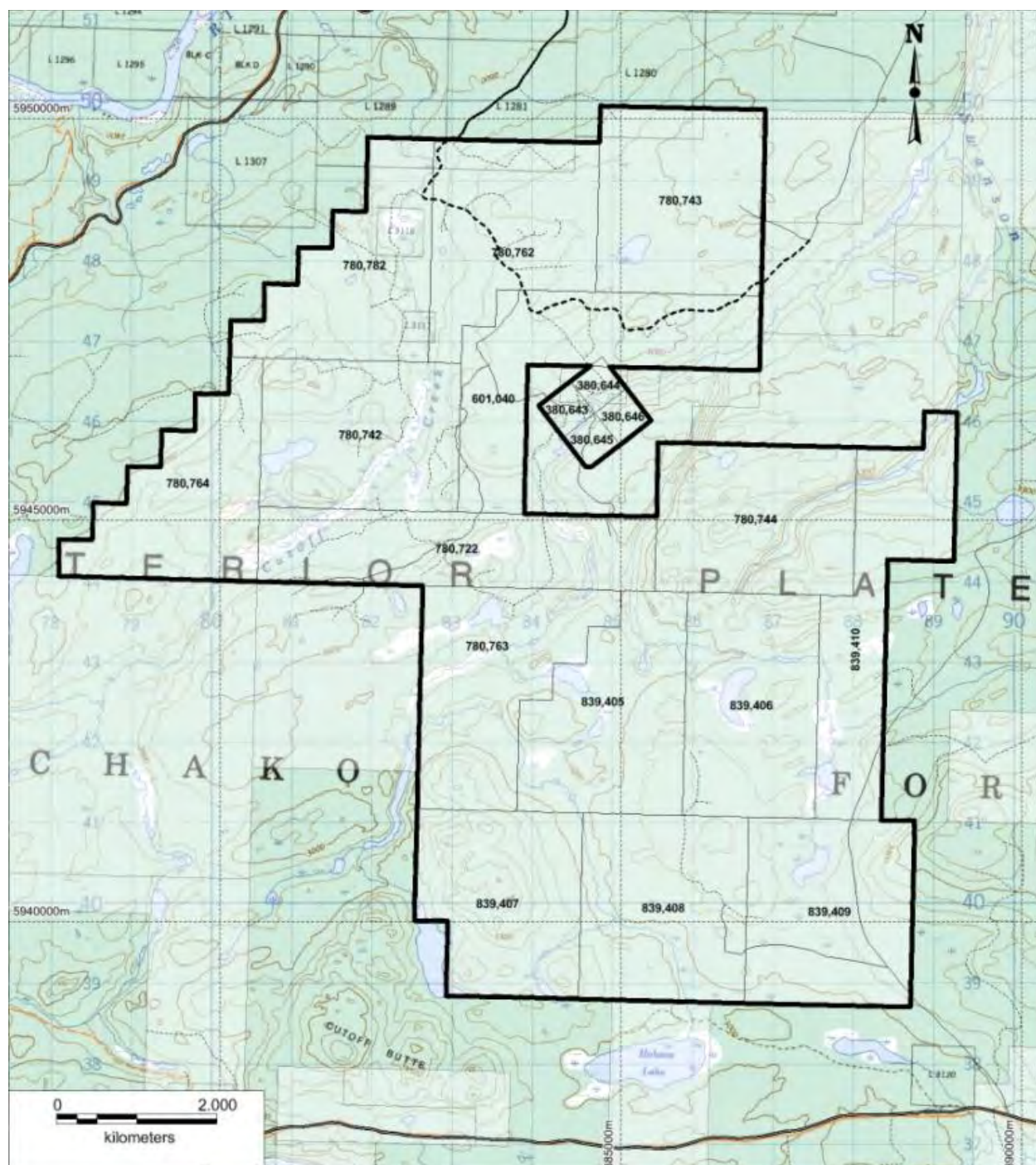
Table 1 Trout Claim Tenure - as of March 15, 2013

	Tenure Number	Claim Name	Good To Date	Area (ha)
1	380643	WINNIE	2018/mar/15	25.0
2	380644	MAGGIE	2018/mar/15	25.0
3	380645	JOCELYN	2018/mar/15	25.0
4	380646	MAREN	2018/mar/15	25.0
5	601040	BROOK	2018/mar/15	479.0855
6	780722	T1	2018/mar/15	460.1451
7	780742	T2	2016/mar/15	460.0064
8	780743	T3	2018/mar/15	478.8812
9	780744	T4	2016/mar/15	460.111
10	780762	T5	2018/mar/15	440.5974
11	780763	T6	2018/mar/15	460.3028
12	780764	T7	2016/mar/15	402.5774
13	780782	T8	2016/mar/15	421.4934
14	839405	T9	2016/mar/15	460.3554
15	839406	T10	2016/mar/15	460.3367
16	839407	T11	2016/mar/15	441.3763
17	839408	T12	2016/mar/15	479.776
18	839409	T13	2016/mar/15	479.7759
19	839410	T14	2016/mar/15	441.0422

The Trout property as outlined and described in this report is subject to an option agreement between Robert Gordon Carmichael (50% optionor), Landmark Geological Inc. (50% optionor) and Venerable Ventures Ltd. (optionee). Details of this agreement are found in a Venerable News Release dated December 14, 2010.

The nineteen contiguous claim tenures were acquired at various times using the old '2 post' physical staking method and the newer British Columbia government's system of electronic 'on-line' staking. None of the claims have not been physically surveyed in the field.

Figure 1: Claim Tenure - Trout Property



(Trout property outlined in black with associated tenure numbers, on NTS 93F 10. Projection NAD 83/Z10)

3. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE and PHYSIOGRAPHY

The Trout property accessed by taking the Kenny Dam Forest Service road turn off from Highway 16 at Vanderhoof and driving southwest along the Nechako River to kilometre 71 where a left turn is made onto the Swanson Logging road. This secondary dirt road heads south for seven kilometres to the old 'discovery outcrop' at Trout and continues on, allowing further access to other parts of the property via a network of other smaller logging trails, recent cut blocks and old drill roads. Local access to other specific areas on the property are best done on foot, or in the winter by snowmobile or snowshoe.

Topography on the property is gentle, with rolling hills and broad wet valleys. At the higher elevations up to 1060 metres, the vegetation consists of a mixed and open growth of white spruce, aspen, and lodge pole pine. At lower elevations down to 820 metres small creek valleys, swamps, marsh lowlands and small diameter and dense black spruce growths are typical. All elevations are below tree line.

Two north-easterly flowing drainages and associated tributaries, known as Cutoff and Swanson Creeks criss-cross the property forming both broad wet valleys and in lesser cases steep sided canyons; the later likely a direct result of recent glacial outwash. A blanket of glacial tills and gravels cover bedrock in most places and exposed outcrop is not common on the property. Poorly developed eskers and large scale outlet tills seen from aerial photos suggest final ice movement came from the southwest to northeast.

Field work can usually start in April and continue through October. The climate is generally considered temperate with summers temperatures variable between 5 to 25°C and winter temperatures dropping to lows of -30°C. Heavy snowfall is not uncommon.

Both Vanderhoof and Prince George are main supply centres for work on the property. A large variety of geological contractors as well as all types of necessary heavy equipment, camp supplies, work personnel and expeditors are available for hire in both communities. Daily jet services link Prince George with Vancouver, B.C.

Access to the property is by four wheel drive truck or by helicopter from Prince George (140 kms) or Burns Lake (60 kms). However, a private gravel landing strip on the River Ranch for small fixed wing aircraft is located along the Nechako River, approximately 5.5 kilometres northwest of Trout. It is not clear if this strip is available for use.

4 PROPERTY WORK HISTORY

The area surrounding and underlying the Trout property was first mapped at a scale of 1:250,000 by the Geological Survey of Canada (Tipper, 1963). Subsequent detail mapping at 1:50,000 was carried out by Anderson, Snyder, Resnick and Barnes (1998) on the Big Bend Creek map sheet (NTS 93F/10) and has been useful in differentiating specific lithological groups and rock units. Although helpful, these mapping campaigns particularly in 1963 are considered broad interpretations of what commonly turns out to be complex geologic environments. This early mapping was later complimented with wide spaced (1000m) airborne magnetics and radiometrics in 1968 by the Federal Government.

Regional lake sediment collection campaigns were also completed by the Geological Survey of Canada in 1993 and 2005 on NTS sheets 93C and F. This geochemical data is an important tool at the beginning of any compilation project, however in this case the sample density around the Trout area is considered very large and is likely helpful only on a regional scale.

The earliest recorded geological exploration work on and around the Trout claims dates back to 1978 when several major and junior exploration companies were actively searching the Nechako area for uranium and molybdenum mineralization. At the time, the Nechako Plateau was considered a relatively remote area to explore, characterized with few access roads, generally poor rock exposure with most areas masked by thick and extensive glacial tills. It was not until the early 1980's and the subsequent discovery of gold at the Trout 'Discovery' outcrop in the summer of 1984 that explores began to realize the area's potential for precious metal mineralization.

Table 2: Historical work

Year	Work	Company	Comments
1978	Drilling	E&B Exploration	Uranium exploration
1984-1985	Prospecting/Trenching/ Drilling	Kerr Addison	Discovery of Trout prospect
1987	Soils/Trenching/Drilling	Welcome North	
1990	1050m Drilling	Goldrite	
1993/1994	1250m Drilling	Cogema	
1995-1997	Sampling/ 615m Drilling	Phelps Dodge	
2000	Rock sampling	Carmichael	Re-staked by Carmichael

Year	Work	Company	Comments
2004	310m Drilling	Southern Rio	Under option
2010	Airborne survey - 6900 hectares	Landmark Geological	Expansion of claims
2011	Soils / Prospecting	Venerable Ventures	
2012	78 line kms cut line / IP/ trenching and 2019m diamond drilling	Venerable Ventures	Subject of this report

For detailed descriptions of the Trout Property work history refer to previous assessment reports.

4.1 2011 - Soil Geochemistry - Venerable Ventures.

A total of 966 Ah horizon soil samples were collected on two grids at 50 metre intervals along north-south lines spaced 200 metres apart. The grids were positioned to test for anomalous areas along northeast and southwest strike extensions of the original Trout "Discovery" zone. Samples were shipped to Acme Labs in Vancouver for analysis by Group 1F Ultratrace.

Results show several geochemical patterns, including in-situ anomalies, ionic anomalies, glacial dispersion anomalies and hydromorphic anomalies. Only two of these patterns are of potential significance; in-situ anomalies and hydromorphic anomalies or anomalies associated with water build-up. Three target areas were identified.

- Target A - Centered at 386500E, 5947430N. The anomalous area occurs with known altered Ootsa Lake Gp. intermediate and felsic volcanics that are exposed north of Swanson Cr and in old outwash channels near the eastern claim boundary. The area is highly anomalous for pathfinder elements (Ag, Pb, Zn, Bi, Cd) but does not have a gold signature.
- Target B - Centered at 385681E, 5947190N. Located west of Target A and 1400 metres northeast of the original Discovery Zone at Trout. It represents a blind target located below glacial till and the Endako Gp. basalt. It has a strong gold-silver-mercury signature.
- Target C - Centered at 385810E, 5948960N. Located in the northeast of the property. It is ring or donut shaped and defined by arsenic-antimony-copper and gold.

Parts of these target areas were followed up in 2012 with IP surveying and drill testing on coincident and prioritized anomalies.

5. REGIONAL GEOLOGICAL SETTING

The Trout property lies in the central portion of the Nechako Basin, an area regarded as part of a larger extensional system that extends from northern Washington State, north-westerly over 1000 kilometres into the Babine district of British Columbia. The property is located more specifically on the Interior Plateau of central British Columbia within the Intermontane Belt and along the eastern edge of the Stikine Terrane, an area consisting of late Palaeozoic to late Tertiary sedimentary, volcanic rocks and intrusive rocks.

The oldest stratigraphic assemblages forming basement rocks to parts of the Nechako Basin in central British Columbia consist of Upper Triassic to Middle Jurassic island arc volcanics, in particular the basaltic Stuhini Group (Takla) and calc-alkaline Hazelton Group. These arc volcanics were intruded by the Topley plutonic rocks and experienced at least two distinct cycles of uplift, erosion and related sediment deposition. These extensive sedimentary deposits are recorded as Upper Jurassic black mudstone, chert pebble conglomerate, and sandstone of the Bowser Lake Group (Ashman Formation) and the overlying Lower Cretaceous Skeena Group.

Several episodes of uplift, block faulting and related Upper Cretaceous and Eocene intrusive activity (Quanchus Intrusions) followed and the area was subsequently overlain by Upper Cretaceous Kasalka Group andesitic volcanics, Middle Eocene Ootsa Lake Group rhyolitic volcanics and andesitic rocks of the Upper Eocene Endako Group andesite flows. Yet another period of uplift in the Oligocene produced back arc volcanism represented by the Miocene and Pliocene Chilcotin Group. These young volcanics consist of flat lying lava fields of vesicular olivine basalts flows, commonly identified with columnar jointing with small shield volcanoes comprising the Anahim Belt locally perched on the plateau forming Chilcotin basalts (Diakow, 1997).

5.1 Local and Property Geology

Detailed drill core logs and descriptions of rock outcrop in trench exposures at the Discovery zone and elsewhere on the property suggest the claims are underlain by various volcanic and sedimentary rocks belonging to the Hazelton, Ootsa, Kasalka and Endako groups.

The author has also relied on various historical interpretations and lithological descriptions recorded in government publications and mineral property assessment reports as quoted below.

Fox (1997):

" The Trout area is underlain by a bimodal sequence of Kasalka Group rhyolitic to andesitic volcanic rocks. Andesitic rocks consists of lapilli tuff, flows and flow breccia. Flows are

generally light green to dark grey, moderately magnetic and locally vesicular with feldspar, hornblende and augite phenocrysts. Thick sequences of maroon to green, monolithic lapilli tuff are intercalated with the flows. Lapilli are angular to sub rounded fragments of andesite porphyry, up to 5 centimetres in size. An important constituent of the Kasalka Group is a polymictic breccia/conglomerate unit that hosts the Trout showing and extends northwesterly for several hundred metres. This unit ranges in width from 700 metres in the south, widening to approximately 2000 metres some 2.5 kilometres to the north.

Just south of the Trout prospect, Kasalka Group rocks are juxtaposed against older Canyon Creek (mJCC) volcanic rocks of the Hazelton Group along a northeast trending fault. Canyon Creek rocks consist of felsic ash tuff, lapilli tuff, and flow breccia which are locally flow-banded with minor interbedded sedimentary rocks."

Potter (1985):

Ootsa Lake volcanics are widely exposed in the area south of Swanson Creek within claims 1 and 5 (current claim T4). Two rock suites are recognized. An early suite of andesitic rocks includes flows, flow breccias and tuffs. A later suite is predominantly trachytic with minor rhyolite and dacite units. Suite Two rocks include banded flows and breccias.

Endako Group olivine basalts (Miocene) outcrop in the upland areas west of Cutoff Creek on claims 14 and 15 (current claims T2, T7). Magnetic surveying shows these rocks to extend into the western corner of the survey grid.

The principal zone of interest, presently recognized; can be considered as the area lying within a 400 meter radius of the Discovery Zone. Much of the andesites and trachytes exposed here have undergone one or more episodes of explosive brecciation. Trachytic breccias tend to exhibit in-situ shattering with no intermixing of contrasting lithologies. Andesitic breccias are commonly polymictic assemblages of fragments differing in composition and texture.

Silicification of the breccia masses has produced fine grained quartz infilling of shatter-voids with little effect, on the fragments themselves. Exception to this occur at Discovery Zone and to a lesser extent at North Zone (Trench 7) where solution of fragment margins has produced rounded clasts enveloped by fine grained banded quartz, chalcedony and adularia ("Quartz-net breccia"). At the Discovery Zone steeply dipping banded quartz-adularia veins cut the breccia. Strike directions of these late features are near 060°.

Relatively fresh andesite flows and depositional breccias are found along the Swanson valley to the south and north-east of the central area of interest. These are devoid of silicification and mineralization.

Along the south side of Swanson valley east of central zone is an extensive zone of highly siliceous volcanic breccias. Silicification here is pervasive rather than peripheral to breccia fragments. These rocks are locally pyritic.

6. MINERALIZATION

Mineral deposit types of the Interior Plateau of British Columbia have been studied by Lane and Schroeter, (1997) among others. Of the twelve low sulphidation epithermal occurrences studied in the Nechako area, at least ten occur in rocks of the Eocene Ootsa Lake Group or Upper Cretaceous Kasalka Group. Host rocks for this mineralization are generally flow banded rhyolite, trachyte, tuffs, related fragment rocks and conglomerates.

Commonly, the regional structures are sub-vertical in nature and vary in orientation from northeast to northwest. These are likely related to the strong Eocene rifting and graben formation described by Diakow (1994).

Precious metal mineralization is usually sulphide poor, but is locally associated with pyrite and lesser amounts of arsenopyrite, stibnite and cinnabar. Native gold, argentite and electrum have been documented at many of the prospects. General conclusions suggest mineralized zones observed on the Trout property are consistent with a low-sulphidation (LS) banded chalcedony Au-Ag epithermal system.

Two types of mineralized host rocks at Trout have been better identified from new drilling by Venerable Ventures and relogging of historical drill core. These are described below.

6.1 'Discovery Zone' - highgrade gold in Brecciated Conglomerate

The location of the original gold discovery on the Trout property is called the 'Discovery Zone' (or Main Zone in some reports). It is located on the Winnie and Jocelyn claims along a swampy valley of Swanson Creek. The mineralization occurs as silicified breccias and veins, in moderately dipping polymictic conglomerate of the Kasalka Group.

Previous chip sampling, and drilling suggests the showing extends approximately 150 metres by 100 metres to the northeast and continues to at least 100 metres depth. The breccia appears to lie along a major northeast trending normal fault which passes through the centre of the property. This fault separates the Hazelton volcanics to the southeast from the Eocene Kasalka Group to the northwest and dips 65° to the north and northwest. It represents an extensional graben structure that is likely related to the precious metal mineralization found at Trout.

At the Discovery zone, bonanza style gold and silver mineralization is hosted in banded chalcedony and quartz - adularia stock works, veinlets and breccias, in and around semi rounded clasts of relatively unaltered and brecciated andesite and conglomerates. These clasts and fragments are commonly rimmed by banded chalcedony and quartz adularia mixes. Thin section

descriptions of mineralized breccia samples from the Discovery zone confirm two stages of brecciation both containing small 'bead-like' grains of native gold and argentite, laminated chalcedonic quartz, adularia with quartz and lesser sericite (Potter, 1985).

6.2 'Camp North Zone' - bulk gold enriched Trachyte Breccia

Gold is found at two other areas known as the Camp and Camp North zones, located 150 metres northwest and 400 metres north of Discovery respectively. Gold and minor silver mineralization is hosted predominantly with silicified volcanic breccias, tuffs, conglomerates and clay altered zones. The volcanic rocks are rhyodacitic to trachytic in composition and are highly porphyritic. They are commonly but not always re-cemented or healed with pervasive silica, quartz veinlets and laminated silica and quartz and clay gouge. Disseminated pyrite is seen but is not overly abundant.

In the Camp (North) Zone drill holes TR12-08 and 09 intercepted wide zones of low grade gold mineralization associated with a quartz healed porphyritic trachyte breccia unit. The zone outcrops immediately below thin overburden, measures 300 metres by 200 metres in diameter and varies in thicknesses from 16 to 27 metres. It has a moderate resistivity IP signature and remains open in three directions. Grades average 0.2 to 0.5 grams per tonne gold and 1 to 5 grams per tonne silver.

7. RESULTS - 2012 FIELD WORK

From May to October, 2012 the Company completed 78 line kilometres of 3D induced polarization (IP) geophysical surveying along newly cut line, sampled previously uncut drill core, collected rock chip samples from 8 different backhoe trenches around and along strike of the original Discovery Zone gold - silver showing and drilled 10 core holes for 2019 metres.

Seven potential exploration targets were identified using a combination of airborne magnetic trends, ultra-trace soil geochemistry, rock chip sampling and IP geophysical surveys. These surveys hoped to identify targets located below a thin 20 to 40 metre post mineral basalt cap or glacial overburden. These target areas are listed below.

Table 3: Target areas defined by Venerable - 2012

Num	Target	Status	New target description	Location	Graben structure
1	Cap Zone	Drill ready	730m by 450m IP anomaly with co-incident Au-Ag-Cu-Hg in soil	1 kilometre NE of Discovery	South fault
2	Camp / Camp N Zones	Drill ready	Venerable collects additional assays from un-split historical core (hole 90-04) – 0.45 g/t Au over 44.52m	150 - 400 metres north and NE of Discovery Zone	South fault
3	Discovery Zone	Drill ready	Rock chip samples, 4.5 g/t Au, 22 g/t Ag over 3m flanking Discovery zone	Discovery Zone	South fault
4	T4	Needs Ground proof	800m by 200m IP anomaly in area of highly brecciated felsic rocks	1.4 kilometres NE of Discovery showing	South fault
5	T5	Needs Ground proof	250m by 200m IP anomaly with co-incident gold in soil	2.3 kilometres NE of Discovery showing	South fault
6	T6	Needs Ground proof	500m by 300m IP anomaly	3.0 kilometres NE of Discovery showing	North fault
7	T7	Needs Ground proof	Gold geochemistry anomaly	2.2 kilometres NNE of Discovery showing	North fault

The Camp, Camp (North), the original Discovery and the Cap Zones all occur inside the south-western corner and along the southern edge of two parallel northeast trending fault structures forming the boundary of a 3 kilometre long by 1.2 km wide graben structure. The objective is to explore this structure to the northeast and test for epithermal precious metal mineralization at previously identified geochemical and geophysical targets inside and along the contacts of the graben boundary. Geological mapping suggests that gold and silver mineralization may either be ‘buried’ by a thin veneer of post mineral basalt rock or occur as near-surface silicified structures

outside the cover rock. Structures such as these are well documented for hosting both bulk and high-grade bonanza style gold and silver deposition.

Four of the seven target areas previously identified by the Company known as the Cap, Camp, Camp (North) and Discovery zones were tested with eight backhoe trenches and ten drill holes during 2012.

7.1 Line Cutting - 2012

Seventy eight line kilometres of survey line was cut during April 28 to May 20, 2012. The work was completed by Rick Henderson of Hendex Exploration from Prince George.

The grid is marked with wooden pegs and labeled with UTM locations every 50 metres. Slope corrections were completed.

The grid is located in the northeastern part of the Trout property and was used for the IP survey.

7.1 Geophysical IP Survey - 2012

SJ Geophysics of Surrey, BC was contracted by Venerable Ventures to complete a 78 line kilometre 3D IP survey. They completed the survey from May 5 to June 6, 2012 and supplied hard copy plots of resistivity, chargeability as well as complete inversion models of the data using the UBC-GIF algorithm.

The model data can be easily visualized in 3D using open source software from Paraview or Mayavi or imported into many different commercial 3D software packages including Mapinfo Discover.

IP grid details as follows:

- **Location:** Latitude: N53° 40' Longitude: W124° 44'385200E 5947400N; UTM Datum: NAD83 Zone 10 (approx. center of grid)
- **Survey Type:** 3D Induced Polarization (3DIP) & 2D Induced Polarization (2DIP)
- **Total Line Kilometers:** 2DIP: 8.15 km, 3DIP: 78.075 km
- **Production Dates:** May 5 – June 6, 2012
- **Objective:** SJ Geophysics was contracted to carry out 2DIP and 3DIP surveys to explore epithermal gold mineralization under a local basalt cap on the Trout Property.
- **Number of Grid Lines:** 31

- **Grid Line Azimuth:** 0°
- **Line Spacing:** 100 m
- **Station Spacing:** 50 m

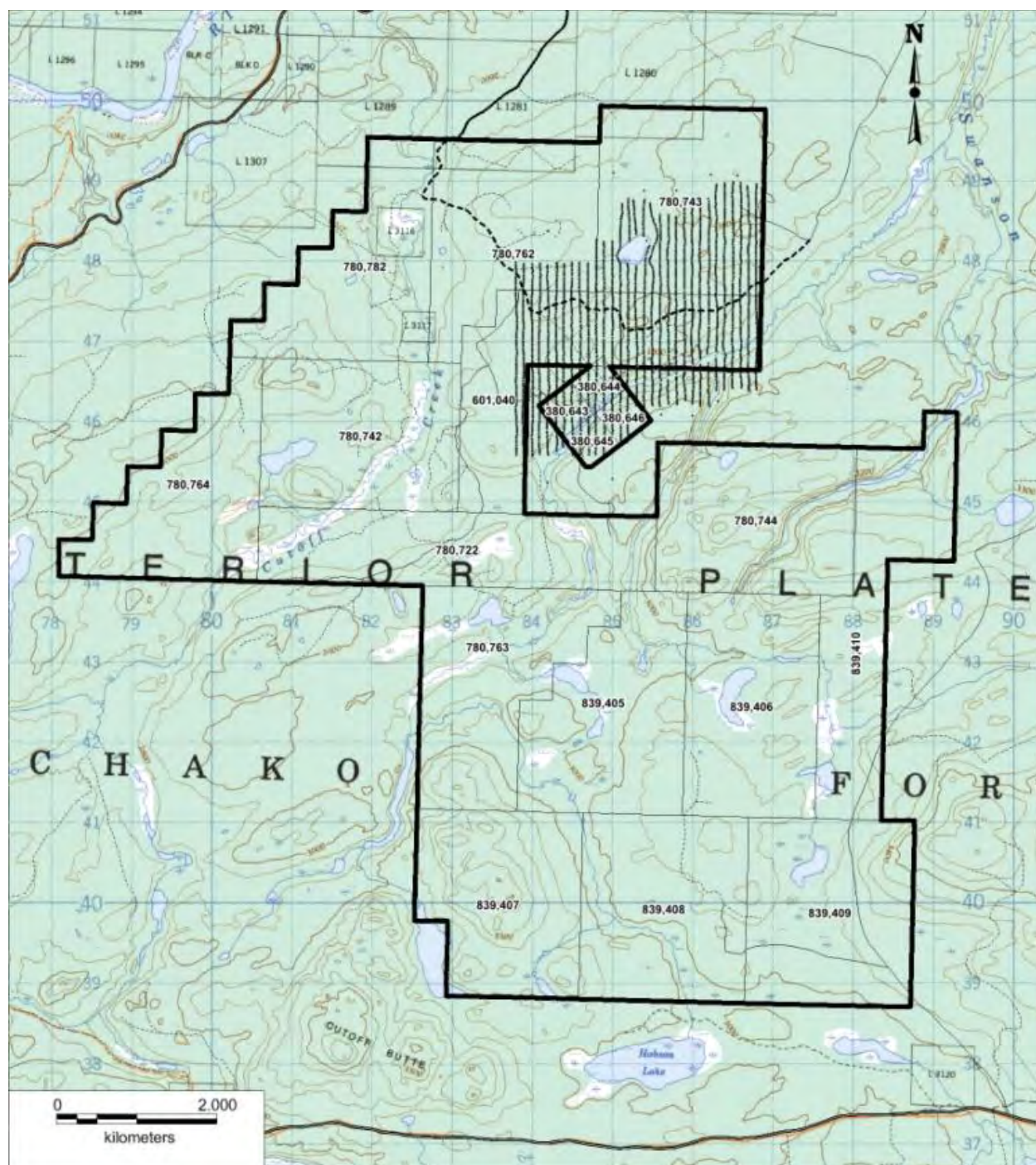
Table 4: Specifications of IP survey

Trout Property – 2DIP & 3DIP – 2012

<i>Array Type</i>	3DIP – Offset Pole-Dipole
<i>Number of Dipoles</i>	16 to 32
<i>Dipole Length</i>	50 m
<i>Array Length</i>	800 m to 1600 m
<i>Current Interval</i>	50 m consecutive or 100 m interlaced (50 m effective)
<i>IP Transmitter</i>	GDD TxII (Serial #246, 247), VIP transmitter
Duty Cycle	50%
Waveform	Square
Cycle and Period	2 sec on / 2 sec off; 8 second
<i>IP Receiver</i>	SJ-24 Full Waveform Digital Receiver
Reading Length	Minimum 83 seconds
Vp Delay, Vp Integration	1200 ms, 600 ms
Mx Delay, # of Windows Width (Mx Intergration)	200 ms, 20 36, 39, 42, 45, 48, 52, 56, 60, 65, 70, 75, 81, 87, 94, 101, 109, 118, 128, 140, 154 (200 ms – 1800 ms)
Properties Calculated	Vp, Mx, Sp, Apparent Res.
<i>GPS</i>	Garmin GPSmap 62s handheld
Average Accuracy	5 m or less
Projection / Datum	UTM NAD83 Zone 10

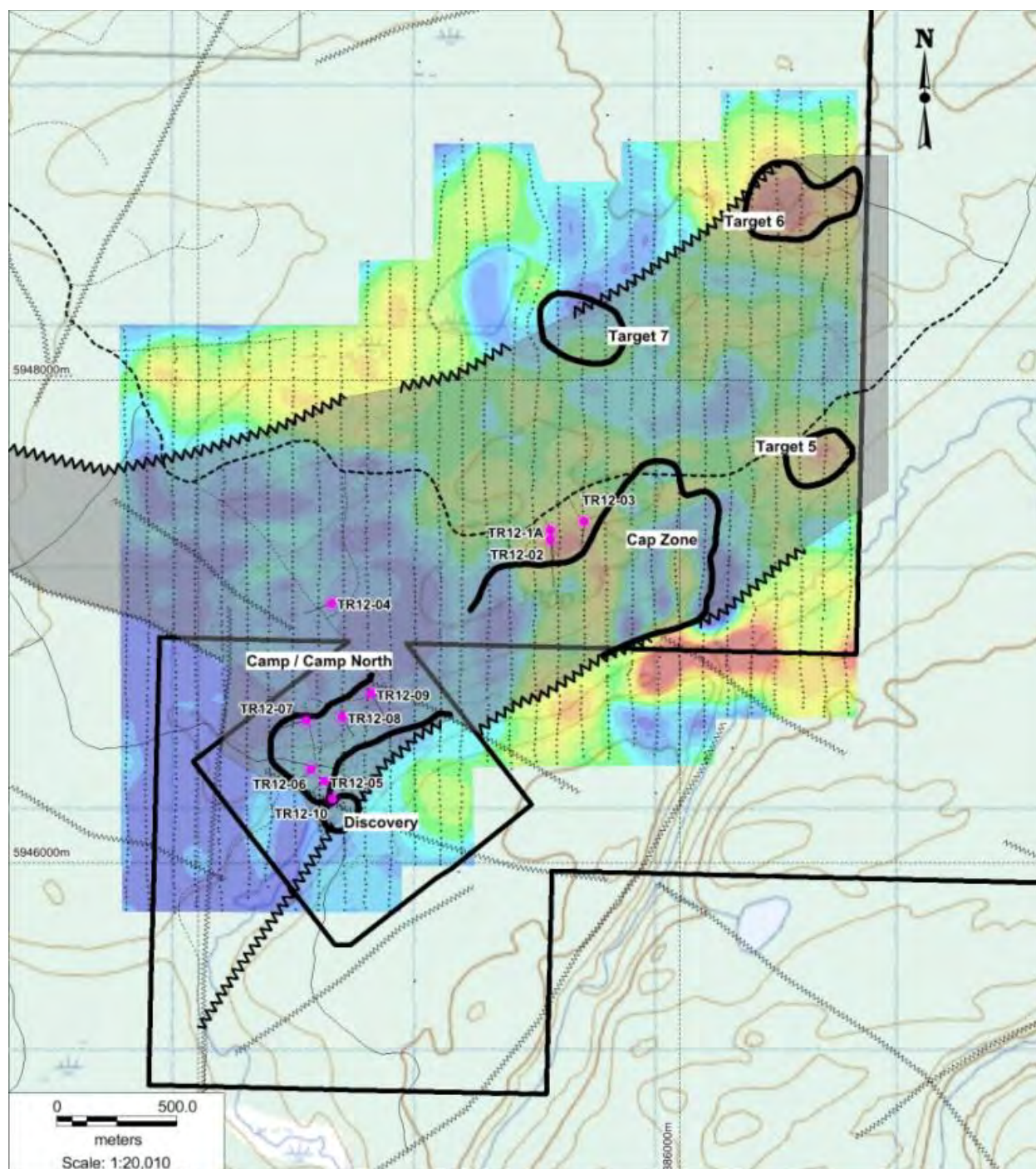
The IP survey was successful in outlining several coincident chargeability and resistivity anomalies consistent with an epithermal environment. These IP anomalies, combined with geochemical and geological data helped direct future drill hole locations.

Figure 2: Cut Line and IP grid location - 2012 Trout



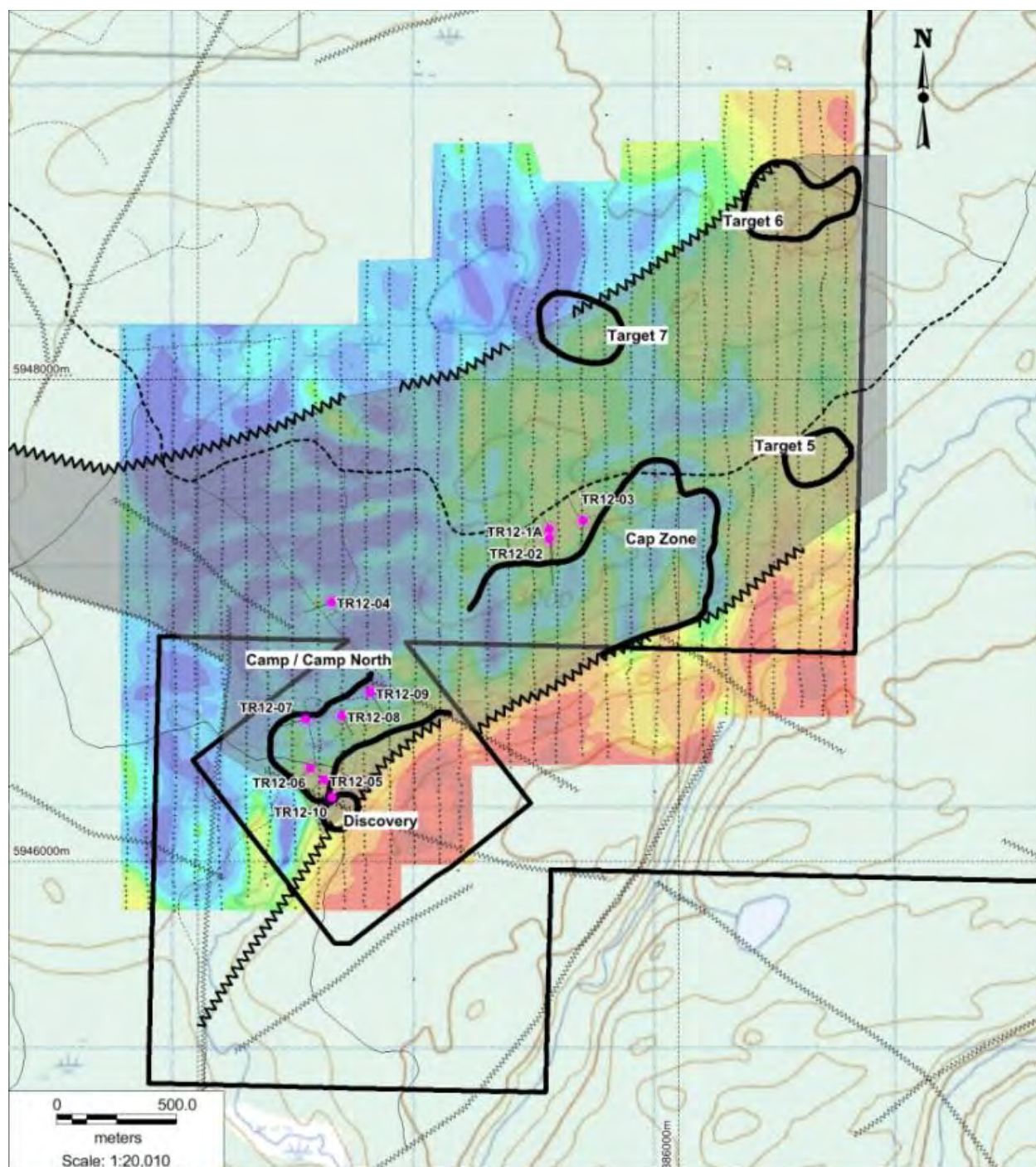
(with claim numbers. NTS 93F 10. Projection NAD 83/Z10)

Figure 3: IP chargeability, 100 metre slice with target areas



(with drill holes and target areas. Dark area is inferred graben. NTS 93F 10. Projection NAD 83/Z10)

Figure 4: IP resistivity, 100 metre slice with target areas



(with drill holes and target areas. Dark area is inferred graben. NTS 93F 10. Projection NAD 83/Z10)

Figure 5: Legends for IP figures

Chargeability (ms)	Resistivity (ohm-m)
> 12	> 1500
11 – 12	700 – 1500
10 – 11	350 – 700
9 – 10	200 – 350
8 – 9	140 – 200
7 – 8	90 – 140
6 – 7	60 – 90
5 – 6	40 – 60
4 – 5	25 – 40
3 – 4	15 – 25
2 – 3	10 – 15
< 2	< 10

7.2 Historical drill core re-sampling

Several historical drill holes were quickly re-logged by J Cuttle and G Dickson in June, 2012. Encouraging drill sections were marked and assayed for the first time or previous split core was marked to be quartered and re-assayed to check historical results. This included hole 90-04, 90-05 and 04-01 located in the Camp and Camp North areas.

New assays from unsplit sections in hole 90-04 combined with previously recorded assays returned 0.45 g/t gold over 44.52 m from 73.48 - 123.0 m, or an increased width 21.20 metres.

Other holes did not contain a complete record of historical core and therefore could not be sampled reliably.

7.3 Trenching results - 2012

In July Venerable Ventures used a large track mounted excavator to complete a total of 211 metres of trenching across eight profiles in the Camp and Camp (North) areas (TR-A thru TR-H). Two other trenches, 200 metres (TR-I,J) located along the northeastern claim boundary did not reach bedrock.

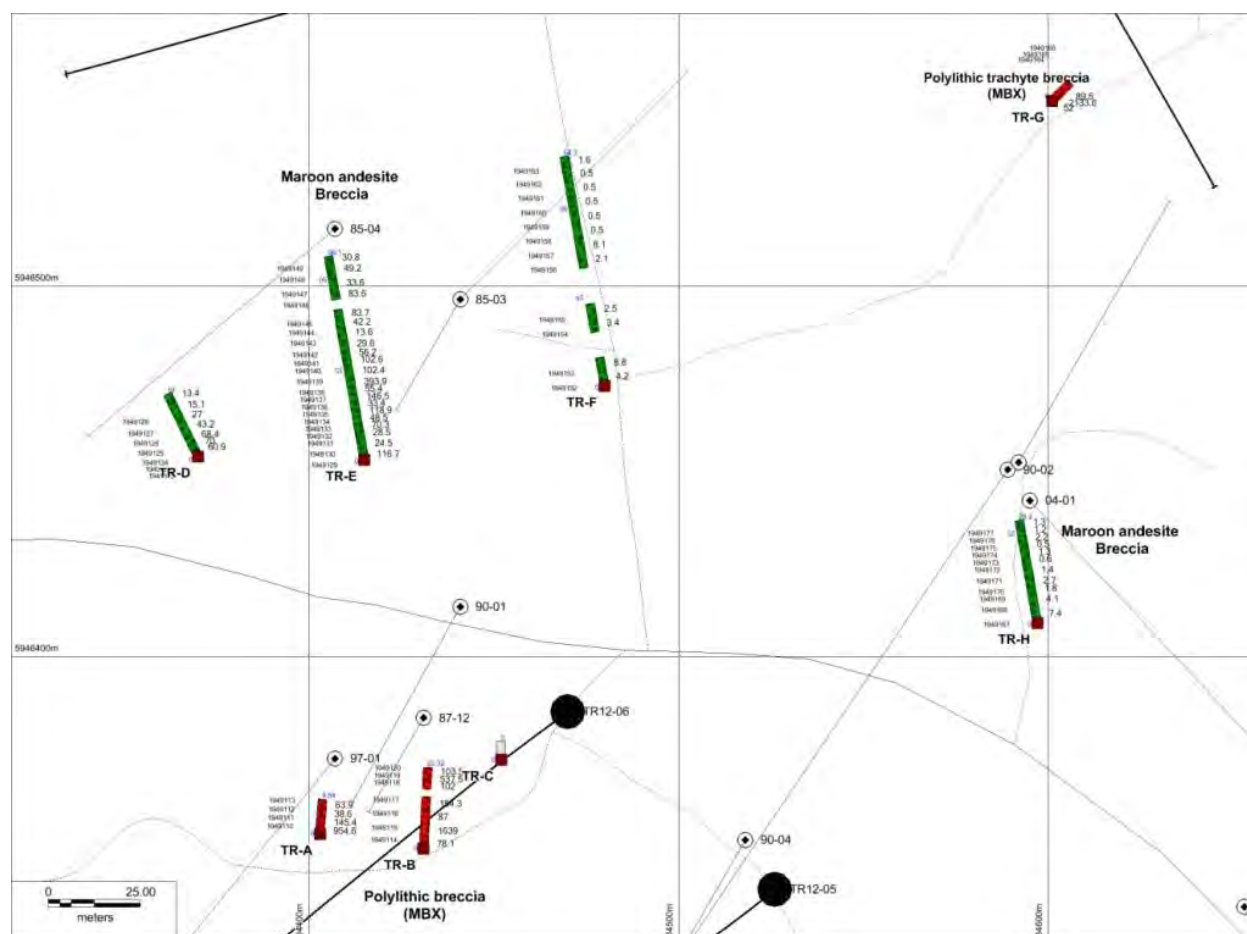
Work was completed by Bruce McMillian of Silver Tip Excavating, Telkwa, BC.

Trench rock chip samples with gold were hosted in predominantly brecciated and vuggy zones of silicified porphyritic volcanic rock. Significant results from the Camp Zone include 21.1 metres grading 0.41 g/t gold in trench TR-B and 16.0 metres grading 0.13 g/t gold in trench TR-E. At the Camp (North) Zone limited bedrock exposure from trench TR-G isolated a single 2 metre outcrop assaying 2.13 g/t gold. Sample numbers and assays are included in Appendix I.

Table 5: Trench locations - 2012 (UTM locations are trench departures)

Trench_ID	UTM83 Easting	UTM Northing	length	azi	dip	Zone	comments
TR-A	384403	5946352	9.54	4	10	Camp	
TR-B	384431	5946348	22.32	3	10	Camp	
TR-C	384452	5946372	5	0	10	Camp	no samples
TR-D	384370	5946454	19	334	10	Camp	
TR-E	384415	5946453	56.1	350	5	Camp	
TR-F	384480	5946473	64.3	350	12	Camp	
TR-G	384601	5946550	7.3	46	16	Camp N	
TR-H	384597	5946409	28.2	350	5	Camp N	
TR-I	386642	5947971	110	60	-5	NE claim	no bedrock
TR-J	386660	5947940	90	60	-4	NE claim	no bedrock

Figure 6 Plan view of Trenches TR-A thru TR-H. Includes 'Camp' and 'Camp North' zones with sample number(L), ppb gold (R) and colored and labeled geology.



Trenches TR-I and TR-J are located along the northeast property boundary and did not reach bedrock. Departures and directions for these trenches are in the above table.

7.4 Drilling results - 2012

The diamond drill program took part from September to October, 2012. The drilling was completed by Western Exploration Diamond Drilling of Knutsford, BC.

Ten holes were drilled into four target areas within the boundaries of the graben feature for a total of 2019 metres. All holes were completed to planned depth except TR12-04. Holes TR12-01A was a re-drill of TR12-01 which had technical difficulties.

Holes were generally started with HQ core size and later reduced to NQ core size when difficult conditions prevailed. The collars are located by handheld GPS.

The core was initially cut by rock saw but later a bulk of the core was split by a longyear hand splitter. Certified standards were purchased from CDN Resource Labs of Vancouver, BC and inserted roughly every 50 samples. The split core was first sent Acme Labs for preparation and analysis and rejects were later sent to ALS Minerals for comparison. At ALS each complete sample was crushed to 70% material less than 2mm in diameter. A 1kg split was then pulverized to better than 85% passing 75 microns (~200 mesh). A 1.0 gram portion of the pulp was then digested in hot aqua regia and analyzed for 34 elements by ICP-AES method. All samples were also analyzed specifically for gold by fire assay and ICP-AES with a 30g nominal weight. The 2012 assay database contains a combination of assays from both labs.

All drill core is housed on site at 384468E, 5946361N.

Table 6: Drill collar locations - 2012

HOLE_ID	x_83	y_83	elev Z	LENGTH m	azi	dip	Zone
TR12-01	385465	5947378	928	51	180	-50	Cap
TR12-01A	385465	5947378	928	295.66	180	-65	Cap
TR12-02	385465	5947337	928	301.75	180	-50	Cap
TR12-03	385600	5947412	926	249.94	180	-65	Cap
TR12-04	384553	5947068	919	181.97	250	-50	Cap W
TR12-05	384526	5946337	855	152.4	225	-50	Camp
TR12-06	384470	5946385	857	152.4	225	-50	Camp
TR12-07	384470	5946590	882	192.02	250	-50	Camp
TR12-08	384601	5946603	882	143.26	150	-50	Camp N
TR12-09	384720	5946701	898	149.35	150	-50	Camp N
TR12-10	384560	5946264	843	149.35	130	-50	Discovery

At the Cap Zone, holes TR12-01A thru TR12-03 tested a 300 metre by 300 metre IP chargeability and resistivity anomaly occurring at depths between 150 and 225 metres below surface. The holes intersected up to 125 metres of partially silicified pyrite rich quartz feldspar

porphyry intrusive, likely representing the cause of the IP anomaly. The unit intrudes rhyodacite, trachyte and minor andesite and conglomeratic formations. Although gold was not found in the drill core this intrusive activity could be key in generating surrounding epithermal overprints within the Trout graben.

Further west and outside the Cap Zone, hole TR12-04 was drilled to test a shallow IP resistivity anomaly. It cut 171 metres of loosely consolidated glacial tills and clays and was later lost in the underlying basalt cap rock.

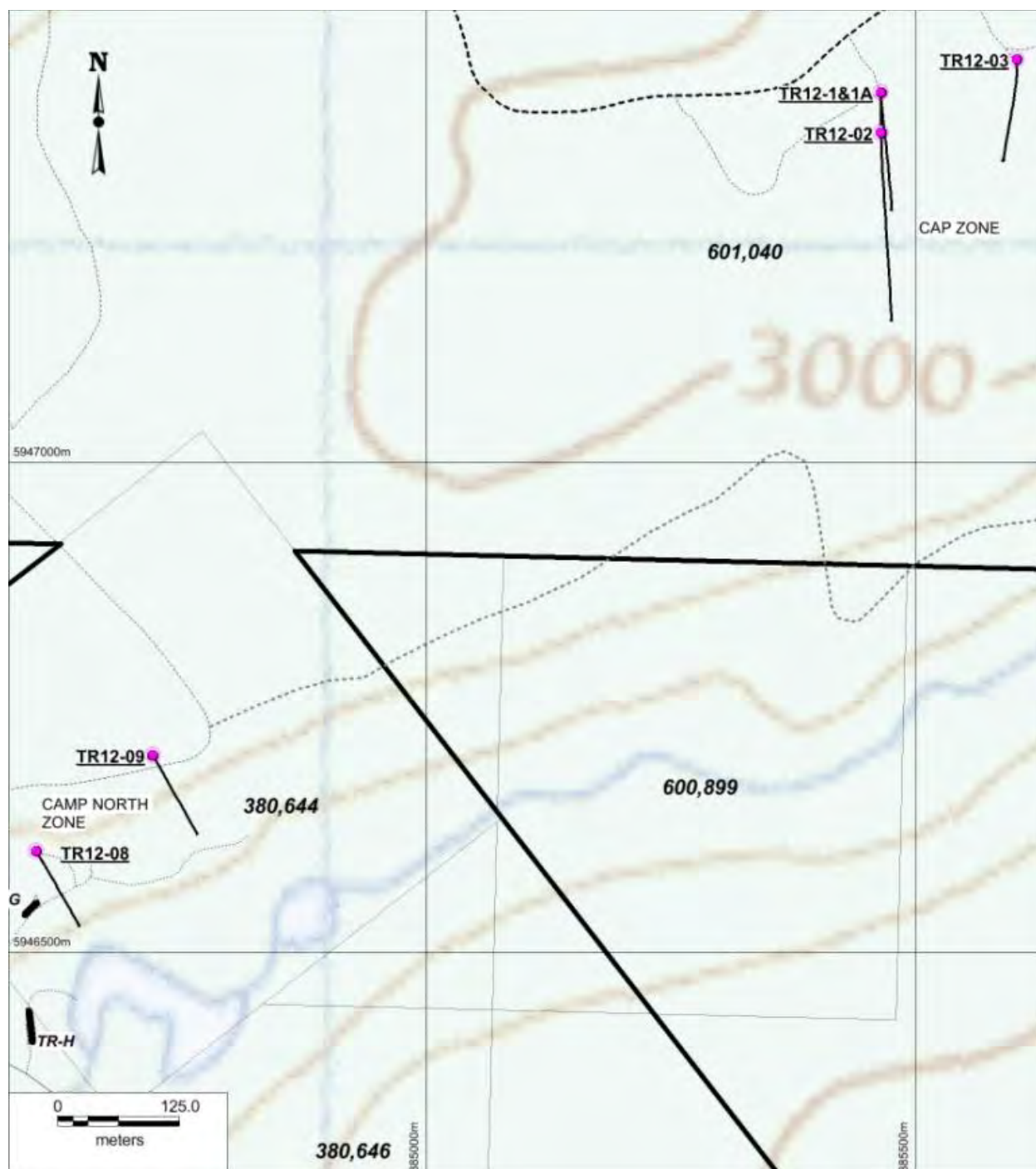
Holes TR12-05 thru TR12-10 suggest that gold mineralization at the Camp, Camp North and Discovery zones occurs predominantly with quartz veins and breccias in silicified volcanic breccias, tuffs, conglomerates and lesser clay altered zones. The volcanic rocks are rhyodacitic to trachytic in composition and are highly porphyritic. They are commonly but not always re-cemented or healed with pervasive silica, quartz veinlets and laminated silica and quartz. Disseminated pyrite is seen but is not overly abundant. Gold is the main element with minor silver. Trace elements show a positive co-relation with arsenic.

Encouraging results come from the Camp (North) Zone where holes TR12-08 and 09 intercepted wider zones of gold mineralization associated with a quartz healed porphyritic trachyte breccia unit. The zone outcrops immediately below 1 to 5 metres of overburden, measures 300 metres by 200 metres in diameter and varies in thicknesses from 16 to 27 metres. It has a moderate resistivity IP signature and remains open in three directions.

Table 7: Drill core assay composites - 2012

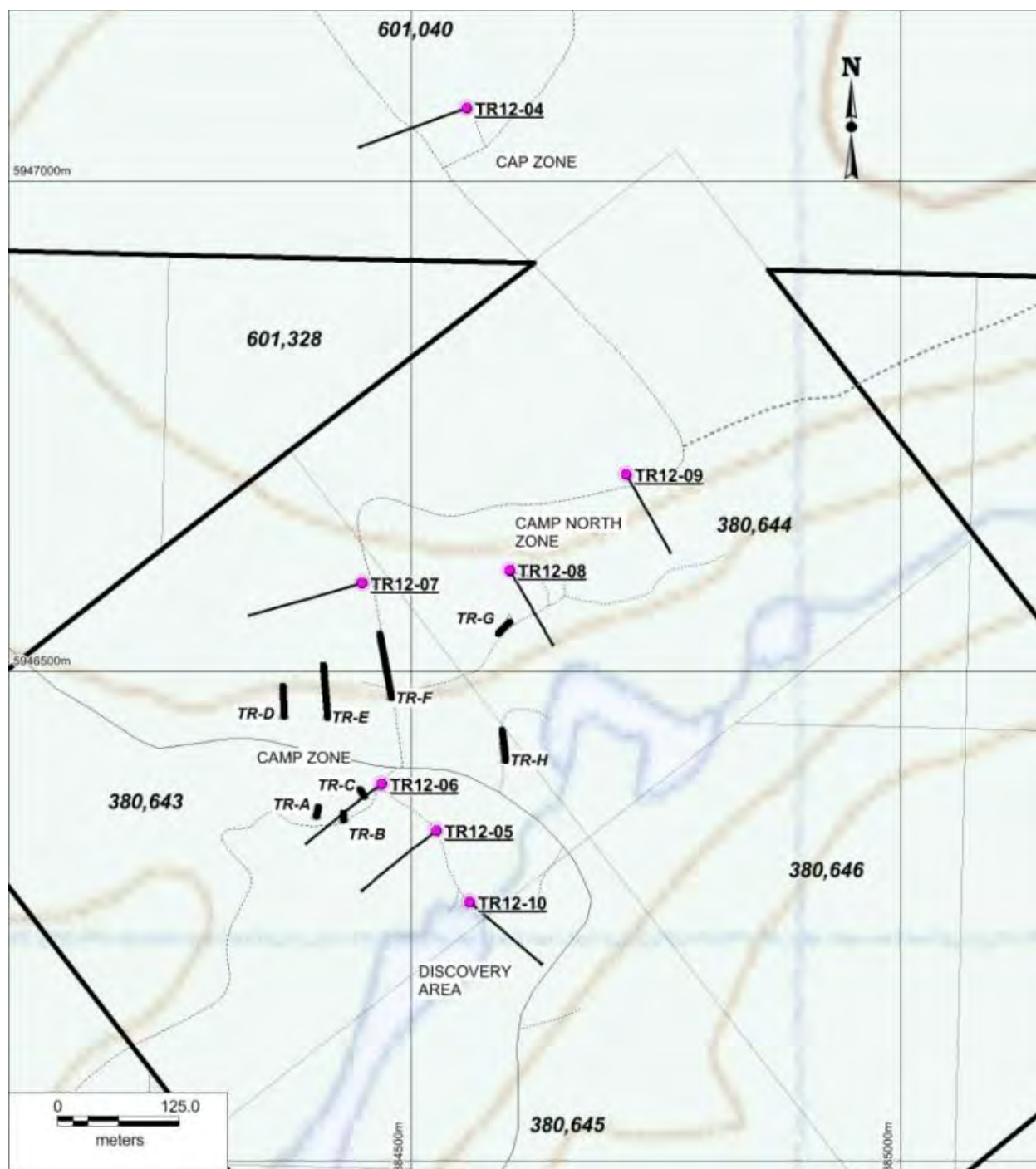
HOLE-ID	FROM m	TO m	LENGTH m	AU_PPM	AG_PPM	Zone
TR12-01	Lost at 53m					Cap
TR12-1A	No significant results					Cap
TR12-02	No significant results					Cap
TR12-03	No significant results					Cap
TR12-04	Overburden					Cap West
TR12-05	36.00	54.00	18.00	0.09	0.8	Camp
TR12-05	74.00	121.82	47.82	0.33	1.8	Camp
TR12-06	15.00	23.00	8.00	0.11	2.0	Camp
TR12-06	43.00	49.00	6.00	0.14	0.9	Camp
TR12-06	81.00	85.70	4.70	0.22	2.3	Camp
TR12-07	no samples taken					Camp
TR12-08	12.26	40.00	27.74	0.24	1.2	Camp (North)
TR12-09	18.29	27.34	9.05	0.20	1.0	Camp (North)
TR12-09	42.00	58.00	16.00	0.44	2.4	Camp (North)
TR12-09	78.00	100.00	22.00	0.10	1.2	Camp (North)
TR12-10	18.29	84.00	65.71	0.17	2.2	Discovery

Figure 7: Plan View. Drill hole and Trench locations (Cap Zone, Drill holes TR12-1,1A,2,3) Scale 1:5,000



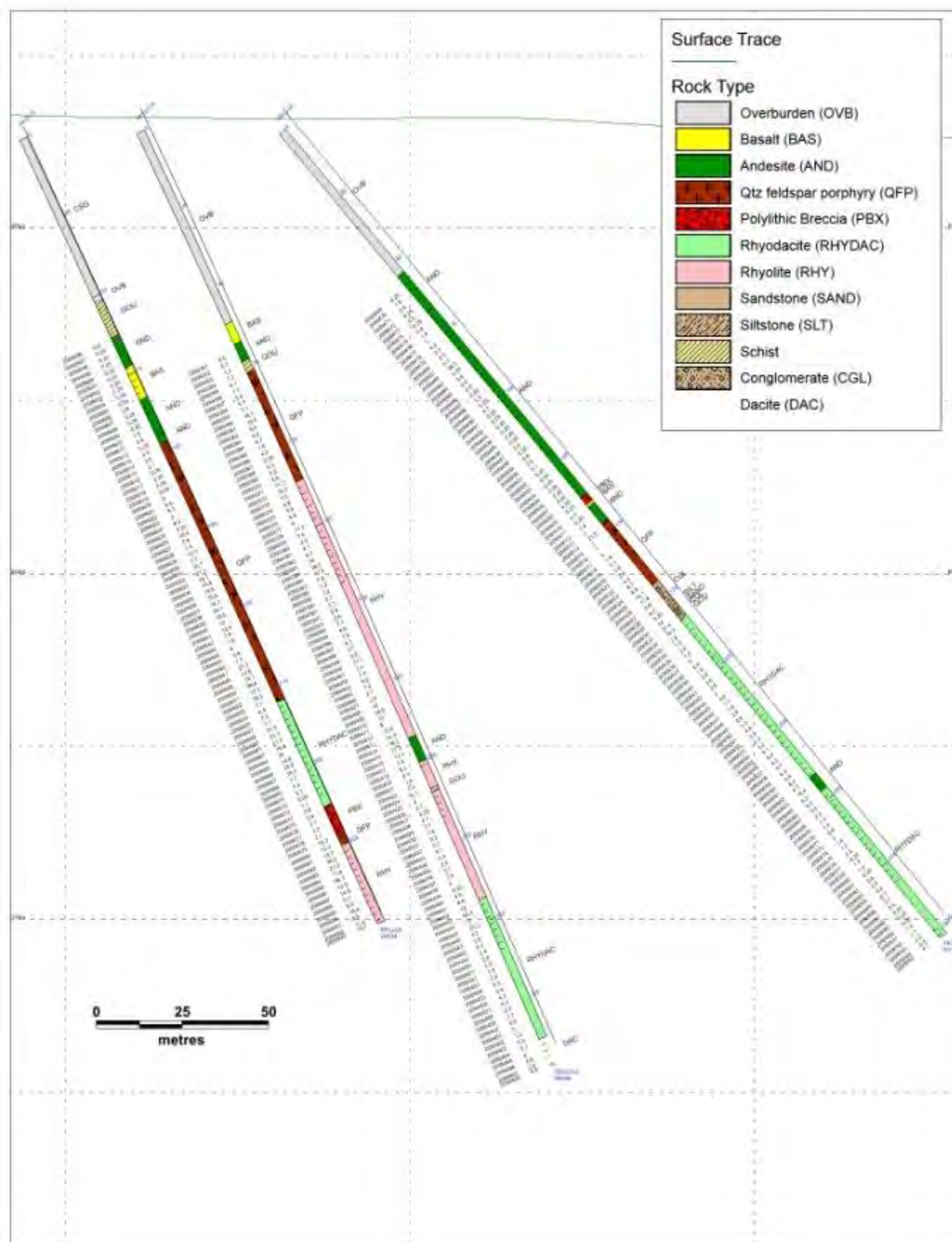
(NTS 93F 10. Projection NAD 83/Z10, Drill collar in magenta)

Figure 8 Plan View. Drill hole Locations (Discovery, Camp, Camp North and Cap Zones, TR12-04 thru 10) Scale 1:5,000



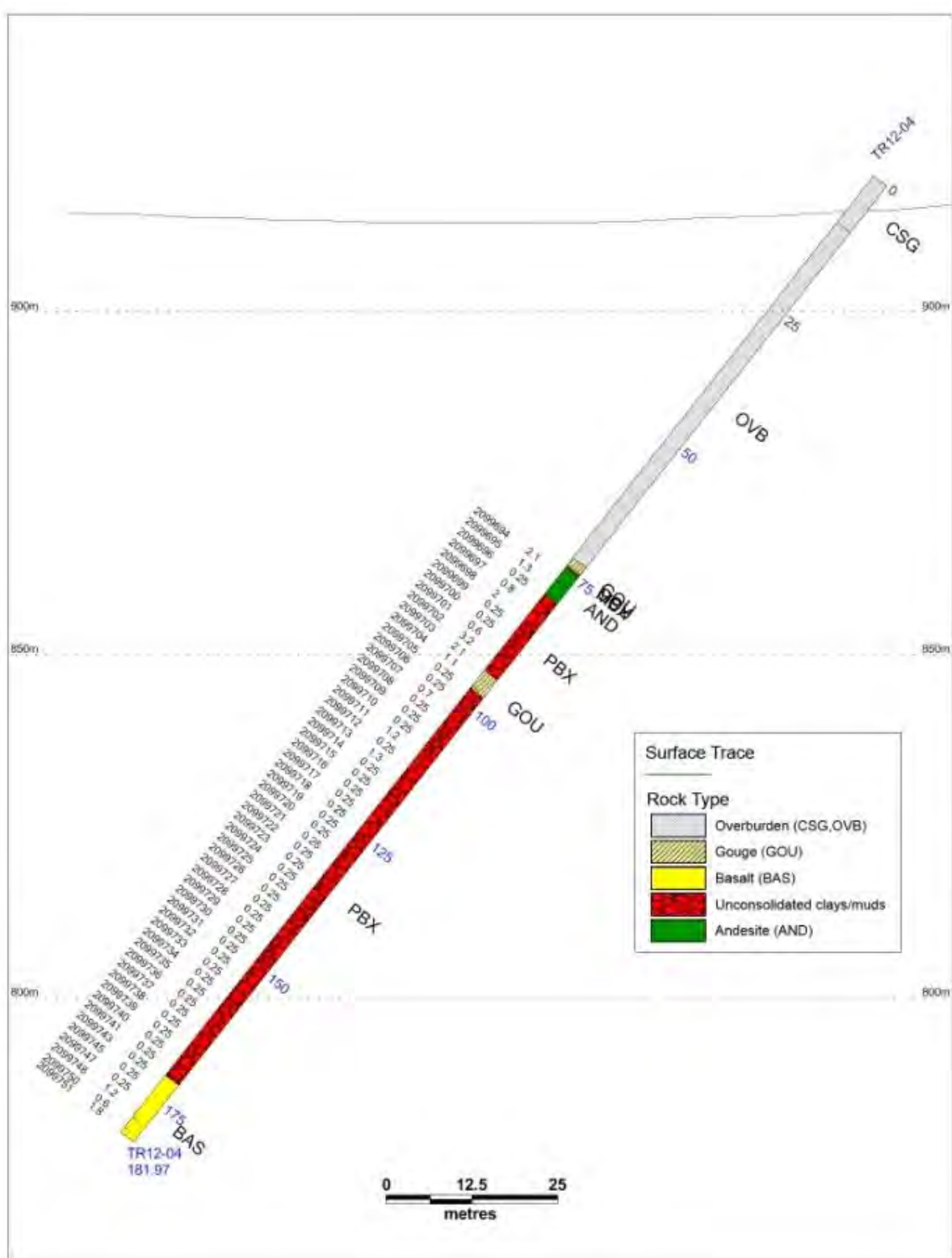
(NTS 93F 10. Projection NAD 83/Z10 Drill collar in magenta, Trench in heavy black)

Figure 9 Drill section – TR12-1A,2,and 3. Cap Zone (sample number, gold in ppb and litho code)



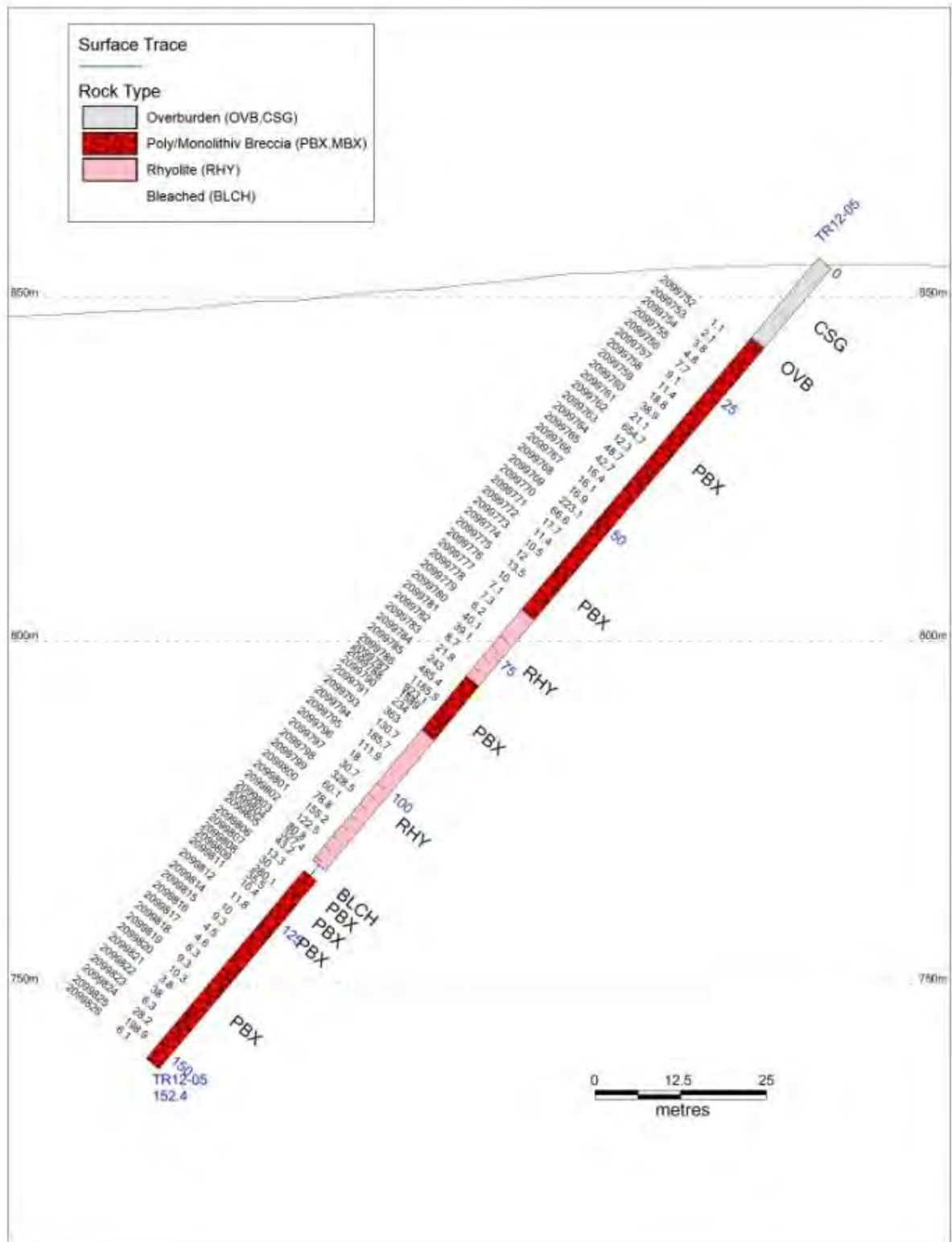
(samples -Tr-12-1A #'s 2099351-2099468, Tr-12-2 #'s 2099469-2099595, Tr-12-3 #'s 2099596-2099693, View to azimuth 090)

Figure 10 Vertical drill section – TR12-4 Cap Zone West (sample number, gold in ppb and litho code)



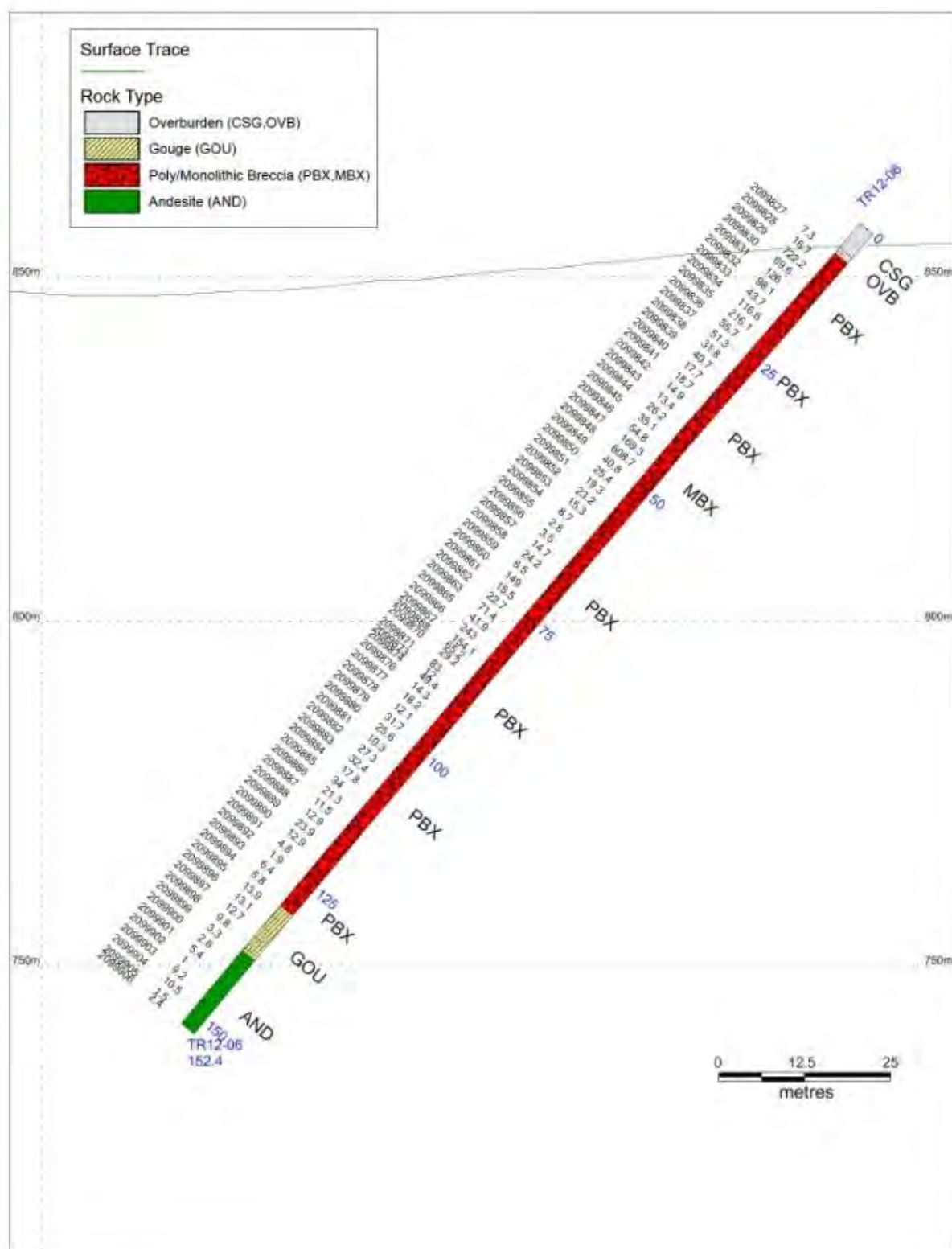
(view northwest at azimuth 340)

Figure 11 Vertical drill section – TR12-5 Camp Zone (sample number, gold in ppb and litho code)



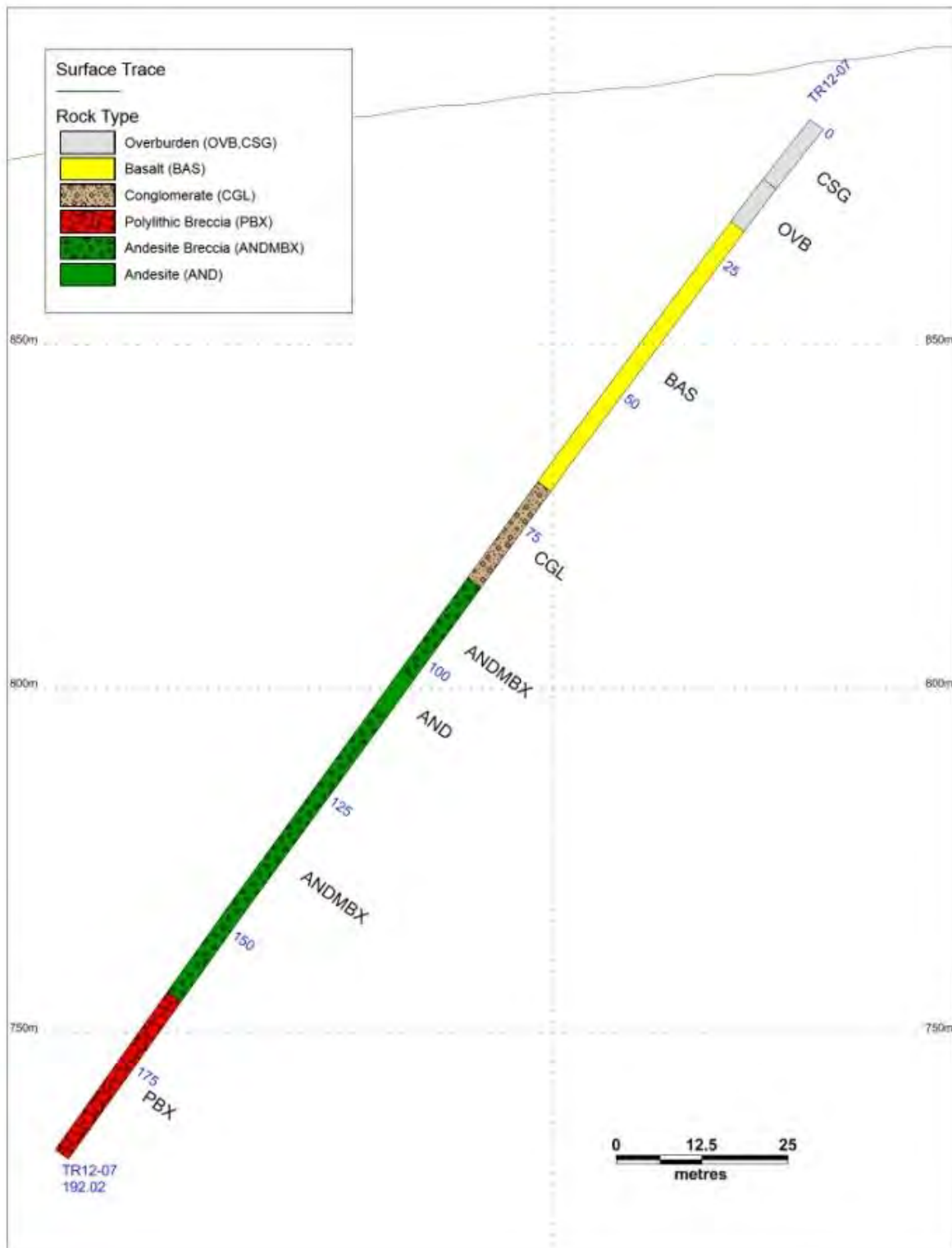
(view northwest at azimuth 335)

Figure 12 Vertical drill section – TR12-6 Camp Zone (sample number, gold in ppb and litho code)



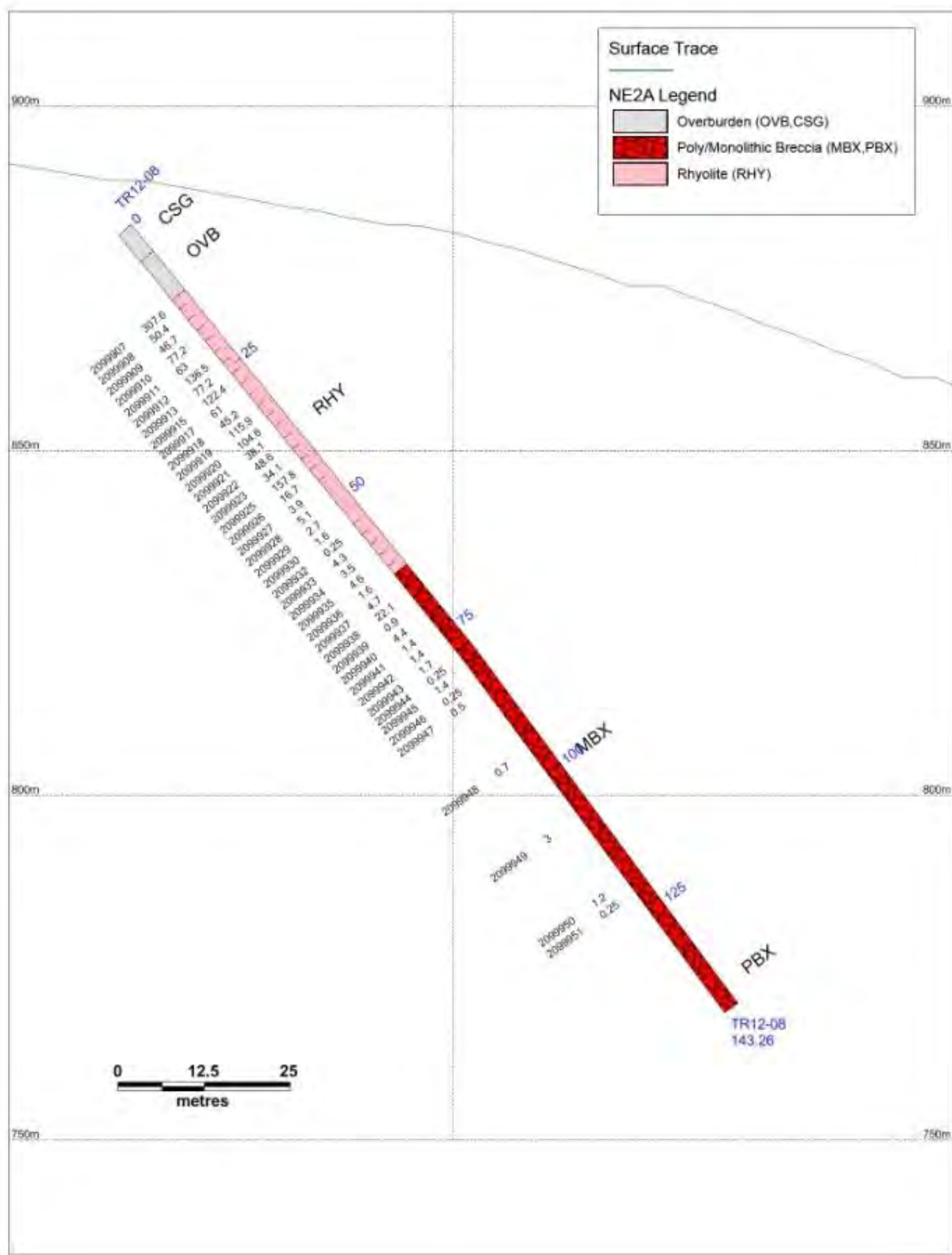
(view northwest at azimuth 335)

Figure 13 Vertical drill section – TR12-7 Camp Zone (showing lithology, no samples taken)



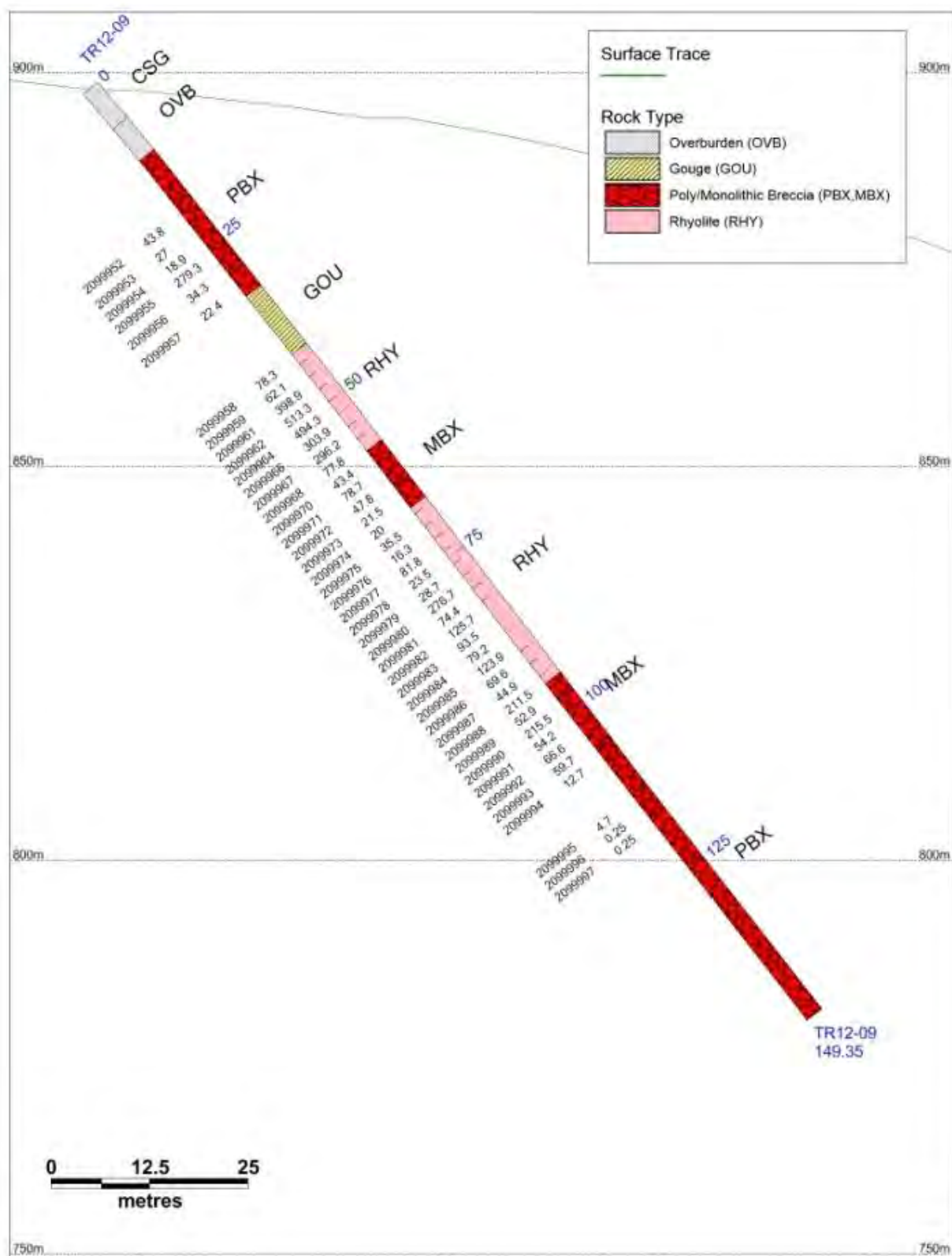
(view northwest at azimuth 340)

Figure 14 Vertical drill section – TR12-8 Camp North Zone (sample number, gold in ppb and litho code)



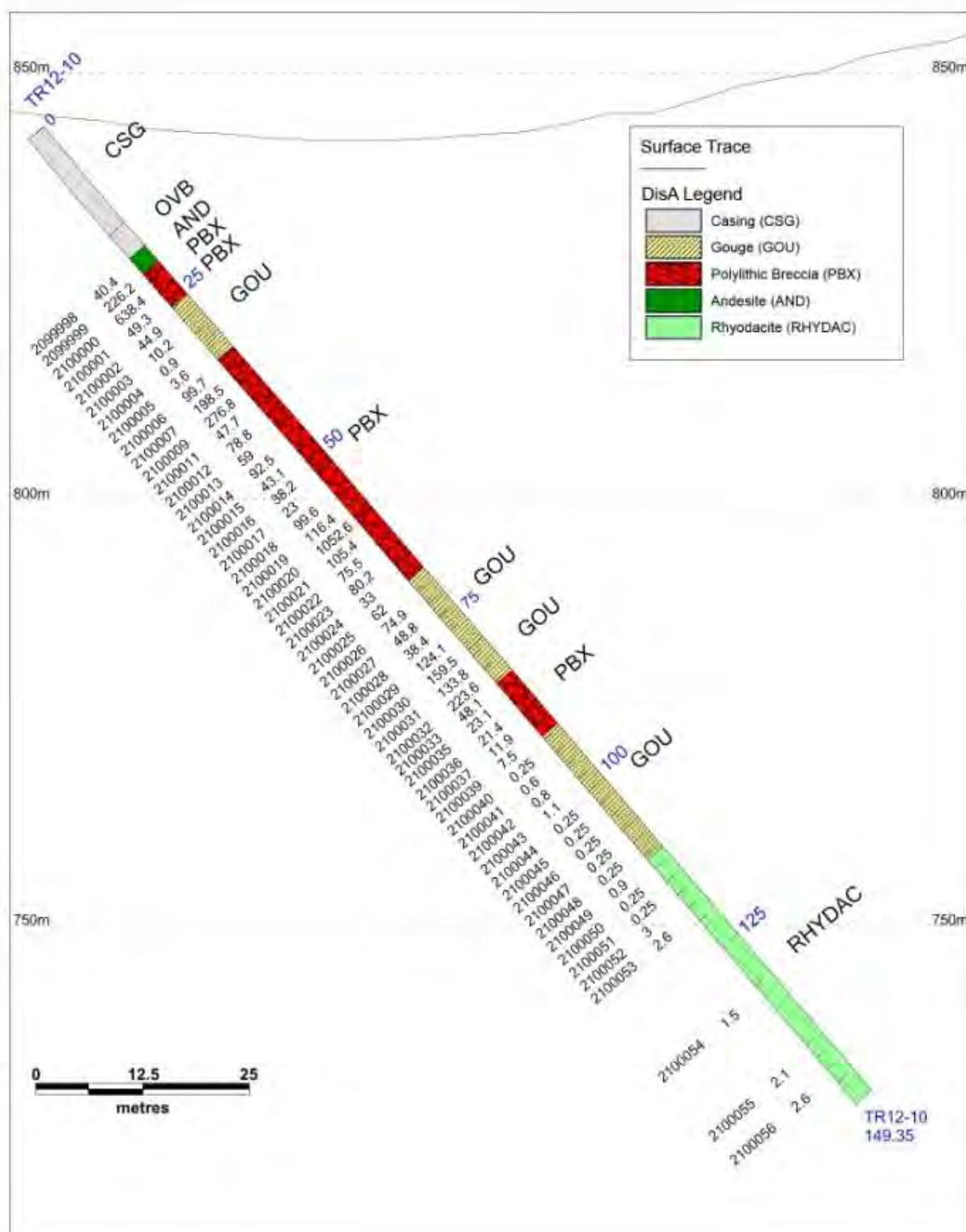
(view northeast at azimuth 060)

Figure 15 Vertical drill section – TR12-9 Camp North Zone (sample number, gold in ppb and litho code)



(view northeast at azimuth 060)

Figure 16 Vertical drill section – TR12-10 Discovery Zone (sample number, gold in ppb and litho code)



(view northeast at azimuth 040)

8. DISBURSEMENTS

The costs are allocated to the claims referenced in this report only. Various expenditures have been decreased to account for work done on neighboring property.

Of the \$675,975.63 spent on the Trout property in 2012, \$115,257.27 was for work applied to keep the claims in good standing and \$560,717.73 was applied to Venerable Ventures PAC account.

Table 8: Trout costs - 2012

Item	Cost \$
Geochem (670 drill core assays, 70 trench samples) Acme Labs, Vancouver. Codes 1DX, ICP-MS. Re-analysis by ALS, Vancouver - 448 sample pulps from Acme – Codes, Au – ICP21, 34 element by ICP41a, MS	22,074.81
Drilling 2019 metres HQ/NQ (Western Exploration Diamond Drilling of Knutsford, BC) 10 holes + 1 lost hole	279,121.00
Trenching (Silver Tip Excavating of Telkwa, BC) 411 meters in 10 separate trenches including approx 300m road and pad building for drilling – 6 days	22,446.00
Geophysics @ 80% - 78 line kms (SJ Geophysics, Delta BC) 3D IP array and inversion models. 8.15 kms of 2D IP as infill survey for improved resolution. (Work from May 5, 2012 to June 6, 2012)	189,773.44
Line cutting @ 80% - 78 line kms (Rick Henderson of Hendex Exploration) Work from April 28, 2012 to May 20, 2012, 24 days. Crew varied from 4 to 8 people.	72,810.00
Satellite photo @ 80% (McElhanney Consultants) Geo-eye image 152 square kilometre image	5,625.00
Wages / support / motel / rentals - 1 geologist (Mike Frye) 55 days @ 400/day. Helpers -120 man days @ 200/day. 1 senior geologist (J Cuttle) 9 days @ 800/day. - Hotel rooms – Vanderhoof Hilltop Hotel. 120 room nights @ 80/night. - Food – 40/day at 120 man days - Rentals /support – trucks, gas, shipping, field and sample supplies	84,125.38
	675,975.63

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10. CERTIFICATE

I, Jim Cuttle, of Whistler, British Columbia, Canada, do certify that;

- I work as a consulting geologist with a home office at 86 Cloudburst Road, Black Tusk Village, Whistler, British Columbia, Canada. V0N-1B1.
- I am a graduate of the University of New Brunswick (1980) with a Bachelor of Science Degree in Geology.
- I have practiced my geological profession continuously for over thirty two years in the capacity of exploration and consulting geologist. My work has included project management, mineral property assessment, data compilation and project generation for various public and private mineral exploration companies in Canada and internationally.
- I am a registered member in good standing of The Association of Professional Engineers and Geoscientists of the Province of British Columbia (19313) and have been since July 1992.
- This summary report on the Trout mineral property is based on the author's site visits to the property in September, 2010, data research in February, 2011 and work supervision June, July and September, 2012.

Dated this 18th day of April, 2013



"Jim Cuttle"

Jim F. Cuttle, B.Sc., P.Geo.

Landmark Geological Inc.

APPENDIX I - Trench Assays 2012

Trench#	from	to	length m	Sample	Cert	As ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm
TR-A	0.00	2.00	2.00	1949110	VAN12003372	106.2	26.3	8.6	45	2.1	954.6
TR-A	2.00	4.74	2.74	1949111	VAN12003372	72.7	32.8	6.6	41	1.4	145.4
TR-A	4.74	6.74	2.00	1949112	VAN12003372	43.1	25.2	5.6	52	0.8	38.6
TR-A	6.74	9.54	2.80	1949113	VAN12003372	38.5	32.1	5.8	53	0.9	63.9
TR-B	0	3.15	3.15	1949114	VAN12003372	40.5	19.4	9.1	30	1.2	78.1
TR-B	3.15	6.87	3.72	1949115	VAN12003372	48.7	27.5	6.9	38	3.2	1639.0
TR-B	6.87	10.87	4	1949116	VAN12003372	47.0	23.6	8.0	51	1.9	87.0
TR-B	10.87	14.32	3.45	1949117	VAN12003372	74.1	25.2	7.2	29	1.5	154.3
TR-B	16.32	18.32	2	1949118	VAN12003372	45.1	16.2	10.5	46	0.7	102.0
TR-B	18.32	20.32	2	1949119	VAN12003372	49.0	20.4	9.2	34	1.7	537.5
TR-B	20.32	22.32	2	1949120	VAN12003372	72.8	30.2	14.7	83	1.6	103.5
TR-D	0	2	2	1949122	VAN12003372	41.4	14.8	7.8	37	0.6	60.9
TR-D	2	4	2	1949123	VAN12003372	43.5	12.4	6.8	31	0.7	70.0
TR-D	4	6	2	1949124	VAN12003372	46.8	12.6	7.9	35	0.9	68.4
TR-D	6	10	4	1949125	VAN12003372	41.4	13.0	7.1	41	0.7	43.2
TR-D	10	12	2	1949126	VAN12003372	25.6	13.8	6.4	27	0.4	27.0
TR-D	12	16	4	1949127	VAN12003372	29.0	11.2	7.3	39	0.3	15.1
TR-D	16	19	3	1949128	VAN12003372	27.2	12.4	6.7	35	0.2	13.4
TR-E	0	2	2	1949129	VAN12003372	30.5	11.9	9.0	57	1.1	116.7
TR-E	2	6	4	1949130	VAN12003372	23.2	11.0	8.7	60	0.9	24.5
TR-E	6	8	2	1949131	VAN12003372	17.0	14.6	8.9	67	0.8	28.5
TR-E	8	10	2	1949132	VAN12003372	29.7	11.1	7.1	65	1.3	70.3
TR-E	10	12	2	1949133	VAN12003372	18.2	11.2	7.7	51	0.9	48.5
TR-E	12	14	2	1949134	VAN12003372	17.8	12.9	8.5	46	0.8	118.9
TR-E	14	16	2	1949135	VAN12003372	14.7	12.5	7.4	49	0.8	33.4
TR-E	16	18	2	1949136	VAN12003372	26.7	9.0	8.0	27	1.1	146.5
TR-E	18	20	2	1949137	VAN12003372	25.3	12.3	7.2	62	1.5	55.4
TR-E	20	22	2	1949138	VAN12003372	57.4	16.2	7.5	59	4.5	393.9
TR-E	22	26	4	1949139	VAN12003372	40.6	44.3	28.9	452	3.9	102.4
TR-E	26	28	2	1949140	VAN12003372	35.6	70.5	120.1	1227	6.5	102.6
TR-E	28	30	2	1949141	VAN12003372	20.5	72.9	19.7	575	3.7	56.2
TR-E	30	32.8	2.8	1949142	VAN12003372	28.5	53.0	10.9	311	1.3	29.6
TR-E	32.8	36.4	3.6	1949143	VAN12003372	18.6	19.5	14.1	118	0.5	13.6
TR-E	36.4	38.4	2	1949144	VAN12003372	39.6	43.4	123.7	863	2.4	42.2
TR-E	38.4	41.4	3	1949145	VAN12003372	41.2	32.6	158.9	777	3.3	83.7
TR-E	44.1	46.1	2	1949146	VAN12003372	45.5	65.5	99.2	1313	5.0	83.6
TR-E	46.1	50.1	4	1949147	VAN12003372	14.9	41.8	51.5	846	3.9	33.6
TR-E	50.1	54.1	4	1949148	VAN12003372	14.1	12.2	8.5	62	0.5	49.2
TR-E	54.1	56.1	2	1949149	VAN12003372	15.0	10.6	7.0	64	1.0	30.8
TR-F	0	4	4	1949152	VAN12003372	33.7	34.6	90.3	1141	0.9	4.2

Trench#	from	to	length m	Sample	Cert	As ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm
TR-F	4	8	4	1949153	VAN12003372	24.9	25.4	51.7	1154	1.0	8.8
TR-F	15	19	4	1949154	VAN12003372	12.8	14.7	18.7	275	0.3	3.4
TR-F	19	23	4	1949155	VAN12003372	10.1	20.7	17.9	136	0.3	2.5
TR-F	33	37	4	1949156	VAN12003372	12.3	28.5	79.7	878	0.7	2.1
TR-F	37	41	4	1949157	VAN12003372	11.8	72.5	245.2	773	8.2	8.1
TR-F	41	45	4	1949158	VAN12003372	15.3	31.3	29.0	589	0.3	<0.5
TR-F	45	49	4	1949159	VAN12003372	8.4	16.4	27.6	202	0.3	<0.5
TR-F	49	53	4	1949160	VAN12003372	7.9	18.3	7.3	117	0.1	<0.5
TR-F	53	57	4	1949161	VAN12003372	9.1	18.4	6.5	108	<0.1	<0.5
TR-F	57	61	4	1949162	VAN12003372	12.9	19.9	13.8	199	0.2	<0.5
TR-F	61	64.3	3.3	1949163	VAN12003372	43.6	33.9	31.7	408	0.3	1.6
TR-G	0	2	2	1949164	VAN12003372	14.2	1.6	11.7	14	0.5	52.0
TR-G	2	4	2	1949165	VAN12003372	24.3	4.3	8.7	32	4.5	2133.6
TR-G	4	7.3	3.3	1949166	VAN12003372	8.6	3.7	11.0	18	1.1	89.5
TR-H	0	4	4	1949167	VAN12003372	1.6	28.4	7.0	49	<0.1	7.4
TR-H	4	8	4	1949168	VAN12003372	0.6	22.9	7.1	39	<0.1	4.1
TR-H	8	10	2	1949169	VAN12003372	0.8	22.8	6.4	30	<0.1	1.8
TR-H	10	12	2	1949170	VAN12003372	0.8	23.4	6.1	31	<0.1	2.7
TR-H	12	16	4	1949171	VAN12003372	<0.5	21.4	6.4	33	<0.1	1.4
TR-H	16	18	2	1949172	VAN12003372	0.6	23.1	6.0	87	<0.1	0.6
TR-H	18	20	2	1949173	VAN12003372	0.5	22.6	6.8	36	<0.1	1.3
TR-H	20	22	2	1949174	VAN12003372	0.7	20.6	7.1	33	<0.1	0.5
TR-H	22	24	2	1949175	VAN12003372	1.4	21.6	6.5	36	<0.1	2.2
TR-H	24	26	2	1949176	VAN12003372	1.1	22.3	6.3	51	<0.1	1.2
TR-H	26	28.2	2.2	1949177	VAN12003372	0.6	27.5	5.7	57	<0.1	1.3

APPENDIX II Drill Hole Logs, TR-12-1A thru Tr-12-10

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-01A	0	60.96	60.96	OVB		glacial till
TR12-01A	60.96	67.2	6.24	BAS		maroon stained mafic tuffaceous (young basalt), sub aerial
TR12-01A	67.2	72.82	5.62	AND		fine grained, bx sections
TR12-01A	72.82	76.25	3.43	GOU	50	2 20cm zones of fine grained silicified material
TR12-01A	76.25	111.07	34.82	QFP		fine disseminated PY <0.5%, light grey green to creamy beige
TR12-01A	111.07	192.15	81.08	RHY		disseminated PY - 1%, whitish beige, fragmental w/tuffaceous zones
TR12-01A	192.15	199.91	7.76	AND	40	dark greenish to grey, epidote fracture fills
TR12-01A	199.91	208.13	8.22	RHY	50	light grey green, altered mafic minerals
TR12-01A	208.13	209.17	1.04	GOU		highly bx and gouge throughout
TR12-01A	209.17	243.34	34.17	RHY	45	light grey, blue to green, altered mafic and feldspar phenocrysts, 2% PY, possible graded zones of rhyodacite
TR12-01A	243.34	287.28	43.94	RHYDAC		mafic mineral alteration composes upto 40% of the rock, softer than RHY, more altered feldspar, minerals up to 5mm in size, light grey to grey green, trace to 1% PY, few bx zones up to 20cm
TR12-01A	287.28	295.66	8.38	DAC		(trachyte?) light greenish grey, trace to 1% PY, brecciated zones well healed, minimal mafic minerals
TR12-02	0	53.64	53.64	OVB		
TR12-02	53.64	67.11	13.47	TRA		brecciated, light grey green with 30cm sections of AND, little to no silica, phenocrysts of soft altered feldspars, hardness of 2, groundmass composed of clays with feldspar grains, lower 2.5m introduces beige coloured minerals and rock colour grades to a light purplish grey green
TR12-02	67.11	137.16	70.05	AND		tuffaceous maroon volcanic, brecciated sections, lathlike white crystals with chlorite and feldspar, some areas more lithified than others, calcite veining throughout
TR12-02	137.16	139.61	2.45	PBX	50	polylitic bx, with clasts 0.5-2cm, matrix supported
TR12-02	139.61	140.47	0.86	BAS	40	fine grained, tuffaceous maroon
TR12-02	140.47	146.5	6.03	TRA		very fine grained, light grey, 80cm section containing angular and sub-rounded clasts up to 2cm, predominantly clay

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-02	146.5	169.83	23.33	QFP		quartz eyes, altered feldspar and biotite crystals, light grey, some areas very unconsolidated, pitting from weathered out mineral, up to 1% pyrite
TR12-02	169.83	176.28	6.45	CGL		round to sub-rounded clasts up to 3cm in size
TR12-02	176.28	179.22	2.94	SILT		siltstone with <1% disseminated pyrite
TR12-02	179.22	179.69	0.47	SAND		sandstone, med grained greywacke w/1% pyrite
TR12-02	179.69	181.62	1.93	CGL		round to sub-rounded clasts up to 2cm in size
TR12-02	181.62	182.7	1.08	GOU		
TR12-02	182.7	241.71	59.01	RHYDAC		light grey green, porphyritic with feldspar, quartz, biotite and hornblende phenocrysts, pyrite up to 1% in some areas, minor beige mineral, calcite veins
TR12-02	241.71	246.89	5.18	AND		greenish grey, tuffaceous, kspar and pyrite crystals, calcite veins on a mm scale
TR12-02	246.89	301.75	54.86	RHYDAC		light grey green, pyrite mineralization along veinlets as well as disseminated throughout from trace to 1%, altered feldspar grains in sections, replacement pyritization in sections, bx sections with light grey green and purplish grey clasts, purplish grey are harder owing to increased silica content, pyrite also occurs as fracture fills in bx sections
TR12-03	0	50.22	50.22	CSG		
TR12-03	50.22	51.82	1.6	OVB		
TR12-03	51.82	62.98	11.16	CLY		unlithified dark brown black with some bedding a 65 ACA
TR12-03	62.98	72.6	9.62	TRA		light green grey with some pink, clay rich, young, <5% silica, altered feldspars, 2m reccia section of green and maroon tuffaceous volcanics
TR12-03	72.6	82.97	10.37	BAS		tuffaceous maroon mafic volcanic with graded zones of light grey green material, CA veins, magnetic
TR12-03	82.97	94.33	11.36	TRA		young, light green grey with a 1m section of tuffaceous mafic volcanic, very soft, clay rich, <5% silica, minor QTZ veining at 85.5m-86.5m, CA veins
TR12-03	94.33	97.07	2.74	AND		dark green grey grading to maroon, some signs of tuffaceous texture, brecciated with dark green or dark red fracture fills, <5% silica, CA veins
TR12-03	97.07	179.23	82.16	QFP		light grey green, QTZ eyes, altered feldspar and biotite phenocrysts

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-03	179.23	212.54	33.31	RHYDAC	35	grey tuffaceous volcanic, trace to 2% PY occurring disseminated or along mm scale veins, >5% silica
TR12-03	212.54	221.48	8.94	PBX		grey, composed of angular fragments with moderately smoothed edges, sulphides occur in the groundmass up to 4%
TR12-03	221.48	224.68	3.2	QFP		QTZ eyes, altered feldspar and biotite, groundmass composed predominantly of silica
TR12-03	224.68	249.94	25.26	RHY		grey, pyrite occurs disseminated as well as in veinlets, alteration from 238 down
TR12-04	0	8.84	8.84	CSG		
TR12-04	8.84	72.68	63.84	OVB		
TR12-04	72.68	73.93	1.25	CLY		
TR12-04	73.93	74.23	0.3	CLYSAN		clayey sand, coarse grained with few angular fragments up to 1cm
TR12-04	74.23	74.43	0.2	MBX		grey, soft, clay rich
TR12-04	74.43	79.63	5.2	AND		dark green and maroon red, soft, unlithified, granular, feldspar and calcite grains (young AND or BAS?)
TR12-04	79.63	94.06	14.43	PBX		dark green to maroon angular clasts in a soft green or maroon groundmass likely composed of finely ground by-products of the angular clasts
TR12-04	94.06	97.45	3.39	SAND	65	well sorted, graded beds of sand sized particles consisting of similar grains of BAS and AND, non magnetic
TR12-04	97.45	171.09	73.64	PBX		dark green to maroon clasts are predominant in a clay matrix, some magnetism but very little in areas of clay/gouge, few areas 20cm wide of solid rock, 165.9m shows heavily oxidized zone which is more magnetic as it approaches BAS contact
TR12-04	171.09	181.97	10.88	BAS		dark grey green, vesicular, upper 1.75m contains brown and reddish brown areas, magnetic, CHL, HM
TR12-05	0	15.04	15.04	CSG		
TR12-05	15.04	15.24	0.2	OVB		
TR12-05	15.24	54.7	39.46	PBX		maroon and light green volcanic, tuffaceous, maroon sections are hard where the light green sections are soft clay based, trace to 1% PY throughout, CA veining, some angular fragments of both maroon and green, other areas look as though the melts did not homogenize

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-05	54.7	67.06	12.36	PBX		this section is composed of the same two rock types as above but primarily light green soft clay rich tuffaceous rock
TR12-05	67.06	79.65	12.59	RHY		tuffaceous maroon mafic volcanic, hard, trace sulphides, silica content >5%
TR12-05	79.65	89.89	10.24	PBX		boxes 26-28, dark green grey and maroon healed with massive QTZ and CA, host rock shows disseminated PY from trace to 1%
TR12-05	89.89	114.62	24.73	RHY		boxes 29-30, PY disseminated up to 1% throughout and 4% along mm scale CA fracture fill planes, very hard, siliceous, dark maroon with some dark green, fracture fills of CA and conchoidal QTZ networked on mm to 1cm scale, slightly magnetic, tuffaceous
TR12-05	114.62	116.64	2.02	BLCH		light brown, clay rich, altered area, 1% disseminated PY throughout and upto 10% along planes
TR12-05	116.64	119.82	3.18	PBX		trace PY, CA, clasts show outer halo alteration
TR12-05	119.82	122.64	2.82	MIN		QTZ rich brecciated zone with milky and smokey opaque QTZ, minor laminations, increase in PY along fracture planes, PBX clasts, no specific orientation of mineralization
TR12-05	122.64	127.3	4.66	BLCH		light brown bleached, PBX zone with QTZ and CA veining
TR12-05	127.3	152.4	25.1	PBX		maroon, dark green and light green clasts, maroon matrix with trace to 1% PY
TR12-06	0	4.55	4.55	CSG		
TR12-06	4.55	5.58	1.03	OVB		
TR12-06	5.58	19.78	14.2	PBX		light green grey to deep red to 14.5m with trace PY into dark green grey hard tuffaceous volcanic
TR12-06	19.78	29.68	9.9	PBX		deep red to green clasts, tuffaceous, up to 2% PY in place, 1% avg PY, silicious, hard
TR12-06	29.68	41.57	11.89	PBX		upper 3m clay rich, soft light green grey with maroon silica rich fragments, overall dark green grey to maroon with angular clasts of multiple lithologies, vuggy with minor QTZ veining
TR12-06	41.57	49.64	8.07	MBX		maroon, tuffaceous, hard, trace sulphides to a green grey tuffaceous, vuggy with CA and QTZ, silica rich, up to 2% sulphides, brecciated

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-06	49.64	85.7	36.06	PBX		clay altered, various clast lithology indicates PBX, matrix supported, colour grades from brown to light green to dark green grey to bleached zone running to 82.30m then into green and maroon
TR12-06	85.7	90.55	4.85	PBX		dark green grey and maroon clasts, tuffaceous, mineralized with laminated QTZ with smokey QTZ rims
TR12-06	90.55	124.29	33.74	PBX		clay rich matrix owing to a very soft rock, light grey green to maroon tuffaceous clasts trace to 1% sulphide throughout large clasts upto 12cm, clast and matrix supported sections, from 102.5-124.29 clasts become more rounded resembling conglomerate in tuffaceous matrix though smaller 1cm angular fragments still present, clasts >1cm show smoothed edges
TR12-06	124.29	129.98	5.69	PBX		small angular fragments <1cm in a light green clay rich matrix, clast supported, minor PY
TR12-06	129.98	138.6	8.62	CLY		light brown to light green, some brecciation, upto 1% PY
TR12-06	138.6	152.4	13.8	AND		dark green with deep red HM veinlets, fine grained with networked CA veins
TR12-07	0	11.34	11.34	CSG		
TR12-07	11.34	19.32	7.98	OVb		
TR12-07	19.32	68.1	48.78	BAS		maroon, tuffaceous, brecciated in areas, gouge in areas, CA veining in bx areas, gouge supported angular clasts in sections, magnetic to slightly magnetic, trace sulphides
TR12-07	68.1	86.04	17.94	CGL		angular to sub rounded clasts upto 8cm, polyolithic, maroon matrix with CA veinlets
TR12-07	86.04	103.01	16.97	MBX		upper 8m very tuffaceous, soft, non-magnetic, grading into harder maroon tuffaceous magnetic BAS breccia
TR12-07	103.01	110.21	7.2	AND		tuffaceous, dark green grey with maroon matrix, softer, owing to more clay composition and altered feldspar grains, non magnetic (young AND?)
TR12-07	110.21	162.86	52.65	MBX		dark grey maroon purplish, tuffaceous, non-magnetic, trace sulphides, CA infills of fractured zones, slightly magnetic at bottom 1m by contact

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-07	162.86	192.02	29.16	PBX		top 3m mostly gouge, maroon, light green grey tuffaceous clasts in maroon matrix, greater magnetism at top than bottom [90% Recovery Overall]
TR12-08	0	5.05	5.05	CSG		
TR12-08	5.05	12.26	7.21	OVB		
TR12-08	12.26	63.5	51.24	RHY		light grey green to pinkish grey, silica rich, porphyritic with light green altered feldspar crystals, brecciated sections throughout healed with fine grained mafic material, rust stained oxidized zones and oxidized vugs with minor QTZ lining, trace sulphides up to 40m, increased brecciation past 40m with sulphides from 1-2%, more AND/DAC approaching bottom 3m
TR12-08	63.5	136.5	73	MBX		severely disturbed brecciated area with two 30cm and one 50cm solid section in upper 10m, dark purplish grey green, less silica than RHY indicating AND/DAC clasts with a soft maroon matrix, disseminated PY throughout from trace to 1%, PY along fracture planes upto 10%
TR12-08	136.5	143.26	6.76	PBX		agglomeratic, light green grey with maroon matrix ending in dark maroon clays
TR12-09	0	5.8	5.8	CSG		
TR12-09	5.8	11.09	5.29	OVB		clays and brecciated fragments
TR12-09	11.09	33	21.91	PBX		light green grey w/pink polyolithic bx fragments with clay matrix, rhyolitic fragments containing 1% sulphides
TR12-09	33	42.41	9.41	CLY		dep red clays, non magnetic, no sulphides
TR12-09	42.41	57.91	15.5	RHY		brecciated, vuggy, same as in hole TR12-08, CA, QTZ, disseminated PY 1-2%
TR12-09	57.91	67.06	9.15	MBX		light green grey, clay rich, small rhyolitic fragments, disseminated PY throughout clay matrix, trace to 1% with some areas up to 2%
TR12-09	67.06	95.2	28.14	RHY		siliceous porphyritic, pinkish grey, disseminated PY upto 2%, high silica content puts rock type into rhyolite, heavily broken, no clay, CHL, dark maroon component 91.5m-94.5m
TR12-09	95.2	105.35	10.15	MBX		maroon, grey, silica rich clasts in fine grained clay matrix, trace -1% sulphide, matrix is light green with some maroon tuffaceous zones

Drill core logs - 2012

Hole_ID	from	to	length	Rx_Code	ACA	Comments
TR12-09	105.35	149.35	44	PBX		tuffaceous maroon to tuffaceous grey green clay rich breccias, upto 1% sulphides polyolithic due to small small clasts of different lithologies
TR12-10	0	14.7	14.7	CSG		
TR12-10	14.7	18.29	3.59	OVB		
TR12-10	18.29	20.76	2.47	AND		maroon and dark green, tuffaceous with kspar coloured deposits in upper 30cm, fracture fills of QTZ and CA with a small 2cm pocket of dark silica w/minor sulphide, trace sulphide throughout, rock type is between AND and BAS with around 5% silica
TR12-10	20.76	23.8	3.04	PBX		maroon and light green grey angular clasts which are silica rich, well healed with QTZ and silica, 1-2% sulphides
TR12-10	23.8	25.85	2.05	PBX		light brown bleached brecciated clays, also maroon and light green grey clasts, tuffaceous brecciated clasts containing smaller fragments appearing to be agglomeratic, 1-2% PY in brown clasts, 1% sulphide avg
TR12-10	25.85	34.1	8.25	CLY	35	maroon clays with light brown bleaching at either end, sulphides present up to 1% in bleached zones
TR12-10	34.1	68.35	34.25	PBX		maroon tuffaceous matrix w/maroon and light grey green clasts, ~5% silica throughout, 1% vugs from 36.5m-43m, 1% avg sulphide
TR12-10	68.35	79.11	10.76	CLY		light green grey and tuffaceous maroon clay, 2-3% sulphides, QTZ and CA veining throughout, some QTZ veining at 55°
TR12-10	79.11	84.29	5.18	CLY		light brown bleached clays, brecciated, agglomeratic, 1% sulphides
TR12-10	84.29	92.52	8.23	PBX	50	angular clasts healed with QTZ, laminated QTZ predominantly from 85.39m-88.39m, becomes more clay rich with minor bleaching to 91m
TR12-10	92.52	111.56	19.04	CLY		tuffaceous maroon and green grey clay rich, trace sulphides, altered feldspar phenocrysts
TR12-10	111.56	149.35	37.79	RHYDAC		light grey green, brecciated, ~10% silica, brecciated sections have more clay component, trace to 1% sulphides

Drill core Log - Legend

LEGEND

Overburden = OVB

Basalt = BAS

Andesite = AND

Gouge = GOU

Qtz feldspar porphyry = QFP

Rhyolite = RHY

Rhyodacite = RHYDAC

Dacite = DAC

Trachyte = TRA

Poly lithic Breccia = PBX

Monolithic Breccia = MBX

Conglomerate = CGL

Siltstone = SLT

Sand = SAND

Clay = CLY

Casing = CSG

Bleach - BLCH

Qtz vein = QV

APPENDIX III - Drill Core Assays 2012 (gold only, with comparison repeats – ALS and Acme)

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-01A	2099351	69	71	2	SMI12000489	ACME	0.5		0.5
TR12-01A	2099352	71	73	2	SMI12000489	ACME	5.7		5.7
TR12-01A	2099353	73	75	2	SMI12000489	ACME	1.2		1.2
TR12-01A	2099354	75	77	2	SMI12000489	ACME	7.2		7.2
TR12-01A	2099355	77	79	2	SMI12000489	ACME	6.1		6.1
TR12-01A	2099356	79	81	2	SMI12000489	ACME	7.1		7.1
TR12-01A	2099357	81	83	2	SMI12000489	ACME	5.4		5.4
TR12-01A	2099358	83	85	2	SMI12000489	ACME	8.1		8.1
TR12-01A	2099359	85	87	2	SMI12000489	ACME	7.1		7.1
TR12-01A	2099360	87	89	2	SMI12000489	ACME	16.1		16.1
TR12-01A	2099361	89	91	2	SMI12000489	ACME	10.4		10.4
TR12-01A	2099362	91	93	2	SMI12000489	ACME	5.5		5.5
TR12-01A	2099363	93	95	2	SMI12000489	ACME	5.9		5.9
TR12-01A	2099364	95	97	2	SMI12000489	ACME	6.7		6.7
TR12-01A	2099365	97	99	2	SMI12000489	ACME	1.6		1.6
TR12-01A	2099366	99	101	2	SMI12000489	ACME	4.2		4.2
TR12-01A	2099367	101	103	2	SMI12000489	ACME	0.3		0.3
TR12-01A	2099368	103	105	2	SMI12000489	ACME	9.3		9.3
TR12-01A	2099369	105	107	2	SMI12000489	ACME	5.3		5.3
TR12-01A	2099370	107	109	2	SMI12000489	ACME	5.6		5.6
TR12-01A	2099371	109	111	2	SMI12000489	ACME	11.7		11.7
TR12-01A	2099372	111	113	2	SMI12000489	ACME	15.2		15.2
TR12-01A	2099373	113	115	2	SMI12000489	ACME	7.5		7.5
TR12-01A	2099374	115	117	2	SMI12000489	ACME	4.8		4.8
TR12-01A	2099375	117	119	2	SMI12000489	ACME	5.8		5.8
TR12-01A	2099376	119	121	2	SMI12000489	ACME	6.4		6.4
TR12-01A	2099377	121	123	2	SMI12000489	ACME	4.0		4.0
TR12-01A	2099378	123	125	2	SMI12000489	ACME	11.2		11.2
TR12-01A	2099379	125	127	2	SMI12000489	ACME	7.4		7.4
TR12-01A	2099380	127	129	2	SMI12000489	ACME	4.3		4.3
TR12-01A	2099381	129	131	2	SMI12000489	ACME	8.1		8.1
TR12-01A	2099382	131	133	2	SMI12000489	ACME	6.7		6.7
TR12-01A	2099383	133	135	2	SMI12000489	ACME	16.0		16.0
TR12-01A	2099384	135	137	2	SMI12000489	ACME	18.7		18.7
TR12-01A	2099385	137	139	2	SMI12000489	ACME	11.9		11.9
TR12-01A	2099387	139	141	2	SMI12000489	ACME	7.9		7.9
TR12-01A	2099388	141	143	2	SMI12000489	ACME	7.2		7.2
TR12-01A	2099389	143	145	2	SMI12000489	ACME	7.2		7.2
TR12-01A	2099390	145	147	2	SMI12000489	ACME	9.7		9.7
TR12-01A	2099391	147	149	2	SMI12000489	ACME	7.7		7.7

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-01A	2099392	149	151	2	SMI12000489	ACME	8.6		8.6
TR12-01A	2099393	151	153	2	SMI12000489	ACME	5.6		5.6
TR12-01A	2099394	153	155	2	SMI12000489	ACME	7.1		7.1
TR12-01A	2099395	155	157	2	SMI12000489	ACME	8.9		8.9
TR12-01A	2099396	157	159	2	SMI12000489	ACME	7.9		7.9
TR12-01A	2099397	159	161	2	SMI12000489	ACME	4.1		4.1
TR12-01A	2099398	161	163	2	SMI12000489	ACME	3.7		3.7
TR12-01A	2099399	163	165	2	SMI12000489	ACME	2.8		2.8
TR12-01A	2099400	165	167	2	SMI12000489	ACME	11.1		11.1
TR12-01A	2099401	167	169	2	SMI12000489	ACME	3.4		3.4
TR12-01A	2099402	169	171	2	SMI12000489	ACME	7.4		7.4
TR12-01A	2099403	171	173	2	SMI12000489	ALS	8	8	6.6
TR12-01A	2099404	173	175	2	SMI12000489	ALS	7	7	7.9
TR12-01A	2099406	175	177	2	SMI12000489	ALS	8	8	2.7
TR12-01A	2099407	177	179	2	SMI12000489	ALS	8	8	7.9
TR12-01A	2099408	179	181	2	SMI12000489	ALS	11	11	10.0
TR12-01A	2099409	181	183	2	SMI12000489	ALS	10	10	18.5
TR12-01A	2099410	183	185	2	SMI12000489	ALS	4	4	10.0
TR12-01A	2099411	185	187	2	SMI12000489	ALS	5	5	8.0
TR12-01A	2099412	187	189	2	SMI12000489	ALS	9	9	15.6
TR12-01A	2099413	189	191	2	SMI12000489	ALS	10	10	14.3
TR12-01A	2099414	191	193	2	SMI12000489	ALS	12	12	18.3
TR12-01A	2099415	193	195	2	SMI12000489	ALS	15	15	17.9
TR12-01A	2099416	195	197	2	SMI12000489	ALS	12	12	13.1
TR12-01A	2099417	197	199	2	SMI12000489	ALS	5	5	7.4
TR12-01A	2099418	199	201	2	SMI12000489	ALS	9	9	8.1
TR12-01A	2099419	201	203	2	SMI12000489	ALS	5	5	8.1
TR12-01A	2099421	203	205	2	SMI12000489	ALS	8	8	7.4
TR12-01A	2099422	205	207	2	SMI12000489	ALS	6	6	5.4
TR12-01A	2099424	207	209	2	SMI12000489	ALS	10	10	6.7
TR12-01A	2099425	209	211	2	SMI12000489	ALS	6	6	4.0
TR12-01A	2099426	211	213	2	SMI12000489	ALS	6	6	2.1
TR12-01A	2099427	213	215	2	SMI12000489	ALS	2	2	0.3
TR12-01A	2099428	215	217	2	SMI12000489	ALS	6	6	4.7
TR12-01A	2099429	217	219	2	SMI12000489	ALS	9	9	7.7
TR12-01A	2099430	219	221	2	SMI12000489	ALS	8	8	7.8
TR12-01A	2099431	221	223	2	SMI12000489	ALS	9	9	9.3
TR12-01A	2099432	223	225	2	SMI12000489	ALS	7	7	3.2
TR12-01A	2099433	225	227	2	SMI12000489	ALS	7	7	5.7
TR12-01A	2099434	227	229	2	SMI12000489	ALS	5	5	3.3

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-01A	2099435	229	231	2	SMI12000489	ALS	3	3	2.9
TR12-01A	2099436	231	233	2	SMI12000489	ALS	4	4	3.1
TR12-01A	2099437	233	235	2	SMI12000489	ALS	2	2	1.8
TR12-01A	2099438	235	237	2	SMI12000489	ALS	2	2	2.0
TR12-01A	2099439	237	239	2	SMI12000489	ALS	3	3	0.3
TR12-01A	2099440	239	241	2	SMI12000489	ALS	6	6	4.9
TR12-01A	2099441	241	243	2	SMI12000489	ALS	5	5	6.8
TR12-01A	2099442	243	245	2	SMI12000489	ALS	22	22	15.0
TR12-01A	2099443	245	247	2	SMI12000489	ALS	99	99	63.4
TR12-01A	2099444	247	249	2	SMI12000489	ALS	7	7	12.0
TR12-01A	2099445	249	251	2	SMI12000489	ALS	9	9	10.3
TR12-01A	2099446	251	253	2	SMI12000489	ALS	3	3	3.2
TR12-01A	2099447	253	255	2	SMI12000489	ACME	2.6	0	2.6
TR12-01A	2099448	255	257	2	SMI12000489	ACME	5.1	0	5.1
TR12-01A	2099449	257	259	2	SMI12000489	ACME	2.4	0	2.4
TR12-01A	2099450	259	261	2	SMI12000489	ACME	2.8	0	2.8
TR12-01A	2099451	261	263	2	SMI12000489	ACME	2.3	0	2.3
TR12-01A	2099452	263	265	2	SMI12000489	ACME	1.5	0	1.5
TR12-01A	2099453	265	267	2	SMI12000489	ACME	5.3	0	5.3
TR12-01A	2099454	267	269	2	SMI12000489	ACME	5.3	0	5.3
TR12-01A	2099455	269	271	2	SMI12000489	ACME	6.6	0	6.6
TR12-01A	2099456	271	273	2	SMI12000489	ACME	4.3	0	4.3
TR12-01A	2099457	273	275	2	SMI12000489	ACME	4.2	0	4.2
TR12-01A	2099458	275	277	2	SMI12000489	ACME	2.7	0	2.7
TR12-01A	2099459	277	279	2	SMI12000489	ACME	2.7	0	2.7
TR12-01A	2099460	279	281	2	SMI12000489	ACME	6.5	0	6.5
TR12-01A	2099461	281	283	2	SMI12000489	ACME	5.0	0	5.0
TR12-01A	2099462	283	285	2	SMI12000489	ACME	3.2	0	3.2
TR12-01A	2099463	285	287	2	SMI12000489	ACME	5.3	0	5.3
TR12-01A	2099464	287	289	2	SMI12000489	ACME	5.7	0	5.7
TR12-01A	2099465	289	291	2	SMI12000489	ACME	4.0	0	4.0
TR12-01A	2099466	291	293	2	SMI12000489	ACME	5.6	0	5.6
TR12-01A	2099467	293	295	2	SMI12000489	ACME	2.8	0	2.8
TR12-01A	2099468	295	296.5	1.5	SMI12000489	ACME	4.4	0	4.4
TR12-02	2099469	57	59	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099470	59	61	2	SMI12000488	ACME	1.8	0	1.8
TR12-02	2099471	61	63	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099472	63	65	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099473	65	67	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099474	67	69	2	SMI12000488	ACME	0.3	0	0.3

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-02	2099475	69	71	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099476	71	73	2	SMI12000488	ACME	1.8	0	1.8
TR12-02	2099477	73	75	2	SMI12000488	ACME	3.0	0	3.0
TR12-02	2099478	75	77	2	SMI12000488	ACME	4.2	0	4.2
TR12-02	2099479	77	79	2	SMI12000488	ACME	2.3	0	2.3
TR12-02	2099480	79	81	2	SMI12000488	ACME	2.6	0	2.6
TR12-02	2099481	81	83	2	SMI12000488	ACME	0.7	0	0.7
TR12-02	2099482	83	85	2	SMI12000488	ACME	38.3	0	38.3
TR12-02	2099483	85	87	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099484	87	89	2	SMI12000488	ACME	0.8	0	0.8
TR12-02	2099485	89	91	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099486	91	93	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099487	93	95	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099488	95	97	2	SMI12000488	ACME	1.3	0	1.3
TR12-02	2099489	97	99	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099490	99	101	2	SMI12000488	ACME	0.7	0	0.7
TR12-02	2099491	101	103	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099492	103	105	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099493	105	107	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099494	107	109	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099495	109	111	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099496	111	113	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099497	113	115	2	SMI12000488	ACME	0.5	0	0.5
TR12-02	2099498	115	117	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099499	117	119	2	SMI12000488	ACME	0.8	0	0.8
TR12-02	2099500	119	121	2	SMI12000488	ACME	2.6	0	2.6
TR12-02	2099501	121	123	2	SMI12000488	ACME	5.1	0	5.1
TR12-02	2099502	123	125	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099503	125	127	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099504	127	129	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099505	129	131	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099506	131	133	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099507	133	135	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099508	135	137	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099509	137	139	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099510	139	141	2	SMI12000488	ACME	0.7	0	0.7
TR12-02	2099511	141	143	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099512	143	145	2	SMI12000488	ALS	2	2	1.4
TR12-02	2099513	145	147	2	SMI12000488	ALS	3	3	1.0
TR12-02	2099514	147	149	2	SMI12000488	ALS	5	5	21.5

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-02	2099515	149	151	2	SMI12000488	ALS	4	4	3.0
TR12-02	2099516	151	153	2	SMI12000488	ALS	9	9	7.0
TR12-02	2099517	153	155	2	SMI12000488	ALS	6	6	5.0
TR12-02	2099518	155	157	2	SMI12000488	ALS	3	3	1.8
TR12-02	2099519	157	159	2	SMI12000488	ALS	2	2	1.1
TR12-02	2099520	159	161	2	SMI12000488	ALS	2	2	3.8
TR12-02	2099521	161	163	2	SMI12000488	ALS	3	3	2.3
TR12-02	2099522	163	165	2	SMI12000488	ALS	5	5	4.3
TR12-02	2099523	165	167	2	SMI12000488	ALS	7	7	6.7
TR12-02	2099524	167	169	2	SMI12000488	ALS	8	8	6.6
TR12-02	2099525	169	171	2	SMI12000488	ALS	15	15	15.1
TR12-02	2099526	171	173	2	SMI12000488	ALS	15	15	11.8
TR12-02	2099527	173	175	2	SMI12000488	ALS	10	10	6.8
TR12-02	2099528	175	177	2	SMI12000488	ALS	9	9	8.2
TR12-02	2099529	177	179	2	SMI12000488	ALS	7	7	0.3
TR12-02	2099530	179	181	2	SMI12000488	ALS	19	19	14.0
TR12-02	2099531	181	183	2	SMI12000488	ALS	28	28	21.4
TR12-02	2099532	183	185	2	SMI12000488	ALS	12	12	10.2
TR12-02	2099533	185	187	2	SMI12000488	ALS	6	6	7.8
TR12-02	2099534	187	189	2	SMI12000488	ALS	3	3	1.5
TR12-02	2099535	189	191	2	SMI12000488	ALS	6	6	2.6
TR12-02	2099536	191	193	2	SMI12000488	ALS	3	3	1.2
TR12-02	2099537	193	195	2	SMI12000488	ALS	7	7	5.0
TR12-02	2099538	195	197	2	SMI12000488	ALS	2	2	2.4
TR12-02	2099539	197	199	2	SMI12000488	ACME	1.6	0	1.6
TR12-02	2099540	199	201	2	SMI12000488	ACME	2.9	0	2.9
TR12-02	2099541	201	203	2	SMI12000488	ACME	3.6	0	3.6
TR12-02	2099542	203	205	2	SMI12000488	ACME	0.8	0	0.8
TR12-02	2099544	205	207	2	SMI12000488	ACME	4.0	0	4.0
TR12-02	2099545	207	209	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099546	209	211	2	SMI12000488	ACME	1.7	0	1.7
TR12-02	2099547	211	213	2	SMI12000488	ACME	1.9	0	1.9
TR12-02	2099548	213	215	2	SMI12000488	ACME	2.8	0	2.8
TR12-02	2099549	215	217	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099550	217	219	2	SMI12000488	ACME	3.3	0	3.3
TR12-02	2099551	219	221	2	SMI12000488	ACME	4.8	0	4.8
TR12-02	2099552	221	223	2	SMI12000488	ACME	3.7	0	3.7
TR12-02	2099553	223	225	2	SMI12000488	ACME	2.2	0	2.2
TR12-02	2099554	225	227	2	SMI12000488	ACME	3.1	0	3.1
TR12-02	2099555	227	229	2	SMI12000488	ACME	9.1	0	9.1

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-02	2099556	229	231	2	SMI12000488	ACME	5.2	0	5.2
TR12-02	2099557	231	233	2	SMI12000488	ACME	4.2	0	4.2
TR12-02	2099558	233	235	2	SMI12000488	ACME	3.7	0	3.7
TR12-02	2099559	235	237	2	SMI12000488	ACME	6.3	0	6.3
TR12-02	2099560	237	239	2	SMI12000488	ACME	4.4	0	4.4
TR12-02	2099561	239	241	2	SMI12000488	ACME	8.3	0	8.3
TR12-02	2099562	241	243	2	SMI12000488	ACME	4.7	0	4.7
TR12-02	2099563	243	245	2	SMI12000488	ACME	15.4	0	15.4
TR12-02	2099565	245	247	2	SMI12000488	ACME	6.2	0	6.2
TR12-02	2099566	247	249	2	SMI12000488	ACME	6.5	0	6.5
TR12-02	2099567	249	251	2	SMI12000488	ACME	3.2	0	3.2
TR12-02	2099568	251	253	2	SMI12000488	ACME	2.2	0	2.2
TR12-02	2099569	253	255	2	SMI12000488	ACME	1.2	0	1.2
TR12-02	2099570	255	257	2	SMI12000488	ACME	1.6	0	1.6
TR12-02	2099571	257	259	2	SMI12000488	ACME	0.6	0	0.6
TR12-02	2099572	259	261	2	SMI12000488	ACME	2.0	0	2.0
TR12-02	2099574	261	263	2	SMI12000488	ACME	1.6	0	1.6
TR12-02	2099575	263	265	2	SMI12000488	ACME	1.2	0	1.2
TR12-02	2099576	265	267	2	SMI12000488	ACME	2.5	0	2.5
TR12-02	2099577	267	269	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099578	269	271	2	SMI12000488	ACME	1.3	0	1.3
TR12-02	2099580	271	273	2	SMI12000488	ACME	1.2	0	1.2
TR12-02	2099581	273	275	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099582	275	277	2	SMI12000488	ACME	0.8	0	0.8
TR12-02	2099583	277	279	2	SMI12000488	ACME	3.5	0	3.5
TR12-02	2099584	279	281	2	SMI12000488	ACME	3.4	0	3.4
TR12-02	2099585	281	283	2	SMI12000488	ACME	8.7	0	8.7
TR12-02	2099586	283	285	2	SMI12000488	ACME	3.7	0	3.7
TR12-02	2099587	285	287	2	SMI12000488	ACME	2.4	0	2.4
TR12-02	2099588	287	289	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099589	289	291	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099590	291	293	2	SMI12000488	ACME	0.3	0	0.3
TR12-02	2099591	293	295	2	SMI12000488	ACME	1.5	0	1.5
TR12-02	2099592	295	297	2	SMI12000488	ACME	1.7	0	1.7
TR12-02	2099593	297	299	2	SMI12000488	ACME	2.2	0	2.2
TR12-02	2099594	299	301	2	SMI12000488	ACME	0.9	0	0.9
TR12-02	2099595	301	301.75	0.75	SMI12000488	ACME	4.1	0	4.1
TR12-03	2099596	63	65	2	SMI12000495	ACME	0.8	0	0.8
TR12-03	2099597	65	67	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099598	67	69	2	SMI12000495	ACME	0.3	0	0.3

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-03	2099599	69	71	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099600	71	73	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099601	73	75	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099602	75	77	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099603	77	79	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099604	79	81	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099605	81	83	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099606	83	85	2	SMI12000495	ACME	2.8	0	2.8
TR12-03	2099607	85	87	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099608	87	89	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099609	89	91	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099610	91	93	2	SMI12000495	ACME	1.3	0	1.3
TR12-03	2099611	93	95	2	SMI12000495	ACME	2.4	0	2.4
TR12-03	2099612	95	97	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099613	97	99	2	SMI12000495	ACME	4.5	0	4.5
TR12-03	2099614	99	101	2	SMI12000495	ACME	2.4	0	2.4
TR12-03	2099615	101	103	2	SMI12000495	ACME	2.1	0	2.1
TR12-03	2099616	103	105	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099617	105	107	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099618	107	109	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099619	109	111	2	SMI12000495	ACME	0.3	0	0.3
TR12-03	2099620	111	113	2	SMI12000495	ACME	8.0	0	8.0
TR12-03	2099621	113	115	2	SMI12000495	ACME	0.6	0	0.6
TR12-03	2099622	115	117	2	SMI12000495	ALS	6.0	6	5.3
TR12-03	2099623	117	119	2	SMI12000495	ALS	12.0	12	3.0
TR12-03	2099624	119	121	2	SMI12000495	ALS	13.0	13	8.9
TR12-03	2099625	121	123	2	SMI12000495	ALS	2.0	2	0.3
TR12-03	2099626	123	125	2	SMI12000495	ALS	14.0	14	10.4
TR12-03	2099627	125	127	2	SMI12000495	ALS	6.0	6	7.6
TR12-03	2099628	127	129	2	SMI12000495	ALS	4.0	4	1.4
TR12-03	2099629	129	131	2	SMI12000495	ALS	12.0	12	12.3
TR12-03	2099630	131	133	2	SMI12000495	ALS	7.0	7	9.7
TR12-03	2099631	133	135	2	SMI12000495	ALS	11.0	11	10.7
TR12-03	2099632	135	137	2	SMI12000495	ALS	16.0	16	21.3
TR12-03	2099633	137	139	2	SMI12000495	ALS	12.0	12	18.1
TR12-03	2099634	139	141	2	SMI12000495	ALS	16.0	16	19.8
TR12-03	2099635	141	143	2	SMI12000495	ALS	11.0	11	19.8
TR12-03	2099636	143	145	2	SMI12000495	ALS	13.0	13	15.8
TR12-03	2099637	145	147	2	SMI12000495	ALS	10.0	10	14.3
TR12-03	2099638	147	149	2	SMI12000495	ALS	16.0	16	24.1

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-03	2099639	149	151	2	SMI12000495	ALS	7.0	7	10.6
TR12-03	2099640	151	153	2	SMI12000495	ALS	8.0	8	13.0
TR12-03	2099641	153	155	2	SMI12000495	ALS	13.0	13	13.4
TR12-03	2099642	155	157	2	SMI12000495	ALS	9.0	9	7.9
TR12-03	2099643	157	159	2	SMI12000495	ALS	9.0	9	7.5
TR12-03	2099644	159	161	2	SMI12000495	ALS	9.0	9	9.0
TR12-03	2099645	161	163	2	SMI12000495	ALS	5.0	5	5.6
TR12-03	2099646	163	165	2	SMI12000495	ALS	7.0	7	7.7
TR12-03	2099647	165	167	2	SMI12000495	ALS	35.0	35	27.7
TR12-03	2099648	167	169	2	SMI12000495	ALS	11.0	11	12.6
TR12-03	2099649	169	171	2	SMI12000495	ALS	12.0	12	15.7
TR12-03	2099650	171	173	2	SMI12000495	ALS	78.0	78	96.6
TR12-03	2099651	173	175	2	SMI12000495	ALS	23.0	23	17.1
TR12-03	2099652	175	177	2	SMI12000495	ALS	16.0	16	15.3
TR12-03	2099653	177	179	2	SMI12000495	ALS	7.0	7	7.1
TR12-03	2099654	179	181	2	SMI12000495	ALS	7.0	7	6.4
TR12-03	2099655	181	183	2	SMI12000495	ALS	7.0	7	7.3
TR12-03	2099657	183	185	2	SMI12000495	ALS	9.0	9	7.1
TR12-03	2099659	185	187	2	SMI12000495	ALS	11.0	11	21.5
TR12-03	2099660	187	189	2	SMI12000495	ALS	15.0	15	21.3
TR12-03	2099661	189	191	2	SMI12000495	ALS	15.0	15	21.9
TR12-03	2099663	191	193	2	SMI12000495	ALS	12.0	12	14.4
TR12-03	2099664	193	195	2	SMI12000495	ALS	11.0	11	24.0
TR12-03	2099665	195	197	2	SMI12000495	ALS	6.0	6	14.8
TR12-03	2099666	197	199	2	SMI12000495	ALS	24.0	24	24.9
TR12-03	2099667	199	201	2	SMI12000495	ALS	12.0	12	15.7
TR12-03	2099668	201	203	2	SMI12000495	ALS	6.0	6	7.7
TR12-03	2099669	203	205	2	SMI12000495	ALS	7.0	7	7.9
TR12-03	2099670	205	207	2	SMI12000495	ALS	4.0	4	3.7
TR12-03	2099672	207	209	2	SMI12000495	ALS	8.0	8	0.3
TR12-03	2099673	209	211	2	SMI12000495	ALS	6.0	6	1.1
TR12-03	2099674	211	213	2	SMI12000495	ALS	5.0	5	3.8
TR12-03	2099675	213	215	2	SMI12000495	ALS	6.0	6	3.5
TR12-03	2099676	215	217	2	SMI12000495	ALS	5.0	5	3.7
TR12-03	2099677	217	219	2	SMI12000495	ALS	5.0	5	3.7
TR12-03	2099678	219	221	2	SMI12000495	ALS	4.0	4	2.1
TR12-03	2099679	221	223	2	SMI12000495	ALS	12.0	12	10.7
TR12-03	2099680	223	225	2	SMI12000495	ALS	12.0	12	13.2
TR12-03	2099681	225	227	2	SMI12000495	ALS	21.0	21	19.7
TR12-03	2099682	227	229	2	SMI12000495	ALS	28.0	28	30.2

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-03	2099683	229	231	2	SMI12000495	ALS	23.0	23	21.3
TR12-03	2099684	231	233	2	SMI12000495	ALS	15.0	15	11.8
TR12-03	2099685	233	235	2	SMI12000495	ALS	69.0	69	56.7
TR12-03	2099686	235	237	2	SMI12000495	ALS	43.0	43	37.6
TR12-03	2099687	237	239	2	SMI12000495	ALS	15.0	15	14.8
TR12-03	2099688	239	241	2	SMI12000495	ALS	11.0	11	9.7
TR12-03	2099689	241	243	2	SMI12000495	ALS	9.0	9	8.2
TR12-03	2099690	243	245	2	SMI12000495	ALS	21.0	21	18.4
TR12-03	2099691	245	247	2	SMI12000495	ALS	15.0	15	9.9
TR12-03	2099692	247	249	2	SMI12000495	ALS	12.0	12	11.4
TR12-03	2099693	249	249.94	0.94	SMI12000495	ALS	13.0	13	10.7
TR12-04	2099694	75	77	2	SMI12000494	ACME	2.1	0	2.1
TR12-04	2099695	77	79	2	SMI12000494	ACME	1.3	0	1.3
TR12-04	2099696	79	81	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099697	81	83	2	SMI12000494	ACME	0.8	0	0.8
TR12-04	2099698	83	85	2	SMI12000494	ACME	2.0	0	2.0
TR12-04	2099699	85	87	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099700	87	89	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099701	89	91	2	SMI12000494	ACME	0.6	0	0.6
TR12-04	2099702	91	93	2	SMI12000494	ACME	3.2	0	3.2
TR12-04	2099703	93	95	2	SMI12000494	ACME	2.1	0	2.1
TR12-04	2099704	95	97	2	SMI12000494	ACME	1.1	0	1.1
TR12-04	2099705	97	99	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099706	99	101	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099707	101	103	2	SMI12000494	ACME	0.7	0	0.7
TR12-04	2099708	103	105	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099709	105	107	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099710	107	109	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099711	109	111	2	SMI12000494	ACME	1.2	0	1.2
TR12-04	2099712	111	113	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099713	113	115	2	SMI12000494	ACME	1.3	0	1.3
TR12-04	2099714	115	117	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099715	117	119	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099716	119	121	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099717	121	123	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099718	123	125	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099719	125	127	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099720	127	129	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099721	129	131	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099722	131	133	2	SMI12000494	ACME	0.3	0	0.3

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-04	2099723	133	135	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099724	135	137	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099725	137	139	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099726	139	141	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099727	141	143	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099728	143	145	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099729	145	147	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099730	147	149	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099731	149	151	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099732	151	153	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099733	153	155	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099734	155	157	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099735	157	159	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099736	159	161	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099737	161	163	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099738	163	165	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099739	165	167	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099740	167	169	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099741	169	171	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099743	171	173	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099745	173	175	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099747	175	177	2	SMI12000494	ACME	0.3	0	0.3
TR12-04	2099748	177	179	2	SMI12000494	ACME	1.2	0	1.2
TR12-04	2099750	179	181	2	SMI12000494	ACME	0.6	0	0.6
TR12-04	2099751	181	181.97	0.97	SMI12000494	ACME	1.8	0	1.8
TR12-05	2099752	16	18	2	SMI12000507	ALS	3.0	3	1.1
TR12-05	2099753	18	20	2	SMI12000507	ALS	1.0	1	2.1
TR12-05	2099754	20	22	2	SMI12000507	ALS	4.0	4	3.8
TR12-05	2099755	22	24	2	SMI12000507	ALS	7.0	7	4.8
TR12-05	2099756	24	26	2	SMI12000507	ALS	11.0	11	7.7
TR12-05	2099757	26	28	2	SMI12000507	ALS	14.0	14	9.1
TR12-05	2099758	28	30	2	SMI12000507	ALS	9.0	9	11.4
TR12-05	2099759	30	32	2	SMI12000507	ALS	28.0	28	18.8
TR12-05	2099760	32	34	2	SMI12000507	ALS	23.0	23	38.9
TR12-05	2099761	34	36	2	SMI12000507	ALS	31.0	31	21.1
TR12-05	2099762	36	38	2	SMI12000507	ALS	113.0	113	654.7
TR12-05	2099763	38	40	2	SMI12000507	ALS	26.0	26	12.3
TR12-05	2099764	40	42	2	SMI12000507	ALS	70.0	70	48.7
TR12-05	2099765	42	44	2	SMI12000507	ALS	158.0	158	42.7
TR12-05	2099766	44	46	2	SMI12000507	ALS	16.0	16	16.4

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-05	2099767	46	48	2	SMI12000507	ALS	16.0	16	16.1
TR12-05	2099768	48	50	2	SMI12000507	ALS	32.0	32	16.9
TR12-05	2099769	50	52	2	SMI12000507	ALS	202.0	202	223.1
TR12-05	2099770	52	54	2	SMI12000507	ALS	152.0	152	66.6
TR12-05	2099771	54	56	2	SMI12000507	ALS	61.0	61	17.7
TR12-05	2099772	56	58	2	SMI12000507	ALS	4.0	4	11.4
TR12-05	2099773	58	60	2	SMI12000507	ALS	14.0	14	10.5
TR12-05	2099774	60	62	2	SMI12000507	ALS	17.0	17	12.0
TR12-05	2099775	62	64	2	SMI12000507	ALS	9.0	9	13.5
TR12-05	2099776	64	66	2	SMI12000507	ALS	9.0	9	10.0
TR12-05	2099777	66	68	2	SMI12000507	ALS	7.0	7	7.1
TR12-05	2099778	68	70	2	SMI12000507	ALS	7.0	7	7.3
TR12-05	2099779	70	72	2	SMI12000507	ALS	9.0	9	6.2
TR12-05	2099780	72	74	2	SMI12000507	ALS	33.0	33	40.1
TR12-05	2099781	74	76	2	SMI12000507	ALS	103.0	103	39.1
TR12-05	2099782	76	78	2	SMI12000507	ALS	31.0	31	8.7
TR12-05	2099783	78	80	2	SMI12000507	ALS	46.0	46	21.8
TR12-05	2099784	80	82	2	SMI12000507	ALS	549.0	549	243.0
TR12-05	2099785	82	84	2	SMI12000507	ALS	666.0	666	485.4
TR12-05	2099786	84	86	2	SMI12000507	ALS	1140.0	1140	1185.5
TR12-05	2099787	86	87.03	1.03	SMI12000507	ALS	1075.0	1075	923.1
TR12-05	2099788	87.03	88.36	1.33	SMI12000507	ALS	2820.0	2820	1589.0
TR12-05	2099790	88.36	89.89	1.53	SMI12000507	ALS	454.0	454	234.0
TR12-05	2099791	89.89	92	1.11	SMI12000507	ALS	188.0	188	363.0
TR12-05	2099793	92	94	2	SMI12000507	ALS	101.0	101	130.7
TR12-05	2099794	94	96	2	SMI12000507	ALS	211.0	211	185.7
TR12-05	2099795	96	98	2	SMI12000507	ALS	197.0	197	111.9
TR12-05	2099796	98	100	2	SMI12000507	ALS	21.0	21	18.0
TR12-05	2099797	100	102	2	SMI12000507	ALS	94.0	94	30.7
TR12-05	2099798	102	104	2	SMI12000507	ALS	393.0	393	328.5
TR12-05	2099799	104	106	2	SMI12000507	ALS	123.0	123	60.1
TR12-05	2099800	106	108	2	SMI12000507	ALS	185.0	185	78.8
TR12-05	2099801	108	110	2	SMI12000507	ALS	108.0	108	155.2
TR12-05	2099802	110	112	2	SMI12000507	ALS	282.0	282	122.5
TR12-05	2099803	112	114	2	SMI12000507	ALS	191.0	191	80.8
TR12-05	2099804	114	114.62	0.62	SMI12000507	ALS	539.0	539	327.4
TR12-05	2099805	114.62	116.64	2	SMI12000507	ALS	23.0	23	43.2
TR12-05	2099806	116.64	118.64	2	SMI12000507	ALS	9.0	9	13.3
TR12-05	2099807	118.64	119.82	1.18	SMI12000507	ALS	65.0	65	30.0
TR12-05	2099808	119.82	121.82	2	SMI12000507	ALS	299.0	299	280.1

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-05	2099809	121.82	122.64	0.82	SMI12000507	ALS	17.0	17	35.5
TR12-05	2099811	122.64	124.64	2	SMI12000507	ALS	21.0	21	10.4
TR12-05	2099812	124.64	127.3	2.66	SMI12000507	ALS	23.0	23	11.8
TR12-05	2099814	127.3	129	1.7	SMI12000507	ALS	8.0	8	10.0
TR12-05	2099815	129	131	2	SMI12000507	ALS	8.0	8	9.3
TR12-05	2099816	131	133	2	SMI12000507	ALS	6.0	6	4.5
TR12-05	2099817	133	135	2	SMI12000507	ALS	7.0	7	4.6
TR12-05	2099818	135	137	2	SMI12000507	ALS	11.0	11	6.3
TR12-05	2099819	137	139	2	SMI12000507	ALS	20.0	20	9.3
TR12-05	2099820	139	141	2	SMI12000507	ALS	33.0	33	10.3
TR12-05	2099821	141	143	2	SMI12000507	ALS	6.0	6	3.8
TR12-05	2099822	143	145	2	SMI12000507	ALS	56.0	56	38.0
TR12-05	2099823	145	147	2	SMI12000507	ALS	5.0	5	6.3
TR12-05	2099824	147	149	2	SMI12000507	ALS	19.0	19	28.2
TR12-05	2099825	149	151	2	SMI12000507	ALS	61.0	61	198.9
TR12-05	2099826	151	152.4	1.4	SMI12000507	ALS	16.0	16	6.1
TR12-06	2099827	5	7	2	SMI12000513	ALS	29.0	29	7.3
TR12-06	2099828	7	9	2	SMI12000513	ALS	22.0	22	16.7
TR12-06	2099829	9	11	2	SMI12000513	ALS	21.0	21	722.2
TR12-06	2099830	11	13	2	SMI12000513	ALS	24.0	24	69.6
TR12-06	2099831	13	15	2	SMI12000513	ALS	86.0	86	126.0
TR12-06	2099832	15	17	2	SMI12000513	ALS	136.0	136	98.1
TR12-06	2099833	17	19	2	SMI12000513	ALS	59.0	59	43.7
TR12-06	2099834	19	21	2	SMI12000513	ALS	87.0	87	116.6
TR12-06	2099835	21	23	2	SMI12000513	ALS	139.0	139	216.1
TR12-06	2099836	23	25	2	SMI12000513	ALS	68.0	68	55.7
TR12-06	2099837	25	27	2	SMI12000513	ALS	82.0	82	51.3
TR12-06	2099838	27	29	2	SMI12000513	ALS	27.0	27	31.8
TR12-06	2099839	29	31	2	SMI12000513	ALS	27.0	27	40.7
TR12-06	2099840	31	33	2	SMI12000513	ALS	26.0	26	17.7
TR12-06	2099841	33	35	2	SMI12000513	ALS	24.0	24	18.7
TR12-06	2099842	35	37	2	SMI12000513	ALS	17.0	17	14.9
TR12-06	2099843	37	39	2	SMI12000513	ALS	52.0	52	13.4
TR12-06	2099844	39	41	2	SMI12000513	ALS	56.0	56	26.2
TR12-06	2099845	41	43	2	SMI12000513	ALS	62.0	62	35.1
TR12-06	2099846	43	45	2	SMI12000513	ALS	172.0	172	54.8
TR12-06	2099847	45	47	2	SMI12000513	ALS	108.0	108	169.3
TR12-06	2099848	47	49	2	SMI12000513	ALS	138.0	138	608.7
TR12-06	2099849	49	51	2	SMI12000513	ALS	16.0	16	40.8
TR12-06	2099850	51	53	2	SMI12000513	ALS	13.0	13	25.4

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-06	2099851	53	55	2	SMI12000513	ALS	19.0	19	19.3
TR12-06	2099852	55	57	2	SMI12000513	ALS	22.0	22	23.2
TR12-06	2099853	57	59	2	SMI12000513	ALS	11.0	11	15.3
TR12-06	2099854	59	61	2	SMI12000513	ALS	5.0	5	8.7
TR12-06	2099855	61	63	2	SMI12000513	ALS	3.0	3	2.8
TR12-06	2099856	63	65	2	SMI12000513	ALS	5.0	5	3.5
TR12-06	2099857	65	67	2	SMI12000513	ALS	24.0	24	14.7
TR12-06	2099858	67	69	2	SMI12000513	ALS	25.0	25	24.2
TR12-06	2099859	69	71	2	SMI12000513	ALS	9.0	9	6.5
TR12-06	2099860	71	73	2	SMI12000513	ALS	61.0	61	149.0
TR12-06	2099861	73	75	2	SMI12000513	ALS	16.0	16	15.5
TR12-06	2099862	75	77	2	SMI12000513	ALS	20.0	20	22.7
TR12-06	2099863	77	79	2	SMI12000513	ALS	90.0	90	71.4
TR12-06	2099865	79	81	2	SMI12000513	ALS	53.0	53	41.9
TR12-06	2099866	81	83	2	SMI12000513	ALS	172.0	172	243.0
TR12-06	2099867	83	85	2	SMI12000513	ALS	302.0	302	154.1
TR12-06	2099868	85	85.7	0.7	SMI12000513	ALS	120.0	120	65.2
TR12-06	2099870	85.7	87.7	2	SMI12000513	ALS	35.0	35	29.2
TR12-06	2099871	87.7	89.94	2.24	SMI12000513	ALS	88.0	88	83.0
TR12-06	2099873	89.94	90.5	0.56	SMI12000513	ALS	13.0	13	12.0
TR12-06	2099874	90.5	92	1.5	SMI12000513	ALS	30.0	30	49.4
TR12-06	2099876	92	94	2	SMI12000513	ALS	15.0	15	14.3
TR12-06	2099877	94	96	2	SMI12000513	ALS	26.0	26	18.2
TR12-06	2099878	96	98	2	SMI12000513	ALS	10.0	10	12.1
TR12-06	2099879	98	100	2	SMI12000513	ALS	35.0	35	31.7
TR12-06	2099880	100	102	2	SMI12000513	ALS	27.0	27	25.6
TR12-06	2099881	102	104	2	SMI12000513	ALS	15.0	15	10.3
TR12-06	2099882	104	106	2	SMI12000513	ALS	36.0	36	27.3
TR12-06	2099883	106	108	2	SMI12000513	ALS	25.0	25	32.4
TR12-06	2099884	108	110	2	SMI12000513	ALS	15.0	15	17.8
TR12-06	2099885	110	112	2	SMI12000513	ALS	19.0	19	34.0
TR12-06	2099886	112	114	2	SMI12000513	ALS	24.0	24	21.3
TR12-06	2099887	114	116	2	SMI12000513	ALS	15.0	15	11.5
TR12-06	2099888	116	118	2	SMI12000513	ALS	13.0	13	12.9
TR12-06	2099889	118	120	2	SMI12000513	ALS	35.0	35	23.9
TR12-06	2099890	120	122	2	SMI12000513	ALS	20.0	20	12.9
TR12-06	2099891	122	124	2	SMI12000513	ALS	4.0	4	4.8
TR12-06	2099892	124	126	2	SMI12000513	ALS	2.0	2	1.9
TR12-06	2099893	126	128	2	SMI12000513	ALS	8.0	8	6.4
TR12-06	2099894	128	130	2	SMI12000513	ALS	17.0	17	5.8

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-06	2099895	130	132	2	SMI12000513	ALS	12.0	12	13.9
TR12-06	2099896	132	134	2	SMI12000513	ALS	14.0	14	13.1
TR12-06	2099897	134	136	2	SMI12000513	ALS	14.0	14	12.7
TR12-06	2099898	136	138	2	SMI12000513	ALS	11.0	11	9.8
TR12-06	2099899	138	140	2	SMI12000513	ALS	6.0	6	3.3
TR12-06	2099900	140	142	2	SMI12000513	ALS	1.0	1	2.6
TR12-06	2099901	142	144	2	SMI12000513	ALS	4.0	4	5.4
TR12-06	2099902	144	146	2	SMI12000513	ALS	0.5	0.5	1.0
TR12-06	2099903	146	148	2	SMI12000513	ALS	12.0	12	9.2
TR12-06	2099904	148	150	2	SMI12000513	ALS	6.0	6	10.5
TR12-06	2099905	150	152	2	SMI12000513	ALS	3.0	3	1.5
TR12-06	2099906	152	152.4	0.4	SMI12000513	ALS	5.0	5	2.4
TR12-08	2099907	12.26	14	1.74	SMI12000514	ALS	367.0	367	307.6
TR12-08	2099908	14	16	2	SMI12000514	ALS	106.0	106	50.4
TR12-08	2099909	16	18	2	SMI12000514	ALS	85.0	85	46.7
TR12-08	2099910	18	20	2	SMI12000514	ALS	135.0	135	77.2
TR12-08	2099911	20	22	2	SMI12000514	ALS	120.0	120	63.0
TR12-08	2099912	22	24	2	SMI12000514	ALS	362.0	362	136.5
TR12-08	2099913	24	26	2	SMI12000514	ALS	109.0	109	77.2
TR12-08	2099915	26	28	2	SMI12000514	ALS	312.0	312	122.4
TR12-08	2099917	28	30	2	SMI12000514	ALS	380.0	380	61.0
TR12-08	2099918	30	32	2	SMI12000514	ALS	323.0	323	45.2
TR12-08	2099919	32	34	2	SMI12000514	ALS	293.0	293	115.9
TR12-08	2099920	34	36	2	SMI12000514	ALS	588.0	588	104.6
TR12-08	2099921	36	38	2	SMI12000514	ALS	109.0	109	38.1
TR12-08	2099922	38	40	2	SMI12000514	ALS	136.0	136	48.6
TR12-08	2099923	40	42	2	SMI12000514	ALS	81.0	81	34.1
TR12-08	2099925	42	44	2	SMI12000514	ALS	35.0	35	157.8
TR12-08	2099926	44	46	2	SMI12000514	ALS	87.0	87	16.7
TR12-08	2099927	46	48	2	SMI12000514	ALS	8.0	8	3.9
TR12-08	2099928	48	50	2	SMI12000514	ALS	10.0	10	5.1
TR12-08	2099929	50	52	2	SMI12000514	ALS	15.0	15	2.7
TR12-08	2099930	52	54	2	SMI12000514	ALS	8.0	8	1.6
TR12-08	2099932	54	56	2	SMI12000514	ALS	1.0	1	0.3
TR12-08	2099933	56	58	2	SMI12000514	ALS	10.0	10	4.3
TR12-08	2099934	58	60	2	SMI12000514	ALS	10.0	10	3.5
TR12-08	2099935	60	62	2	SMI12000514	ALS	9.0	9	4.6
TR12-08	2099936	62	64	2	SMI12000514	ALS	5.0	5	1.6
TR12-08	2099937	64	66	2	SMI12000514	ALS	1.0	1	4.7
TR12-08	2099938	66	68	2	SMI12000514	ALS	1.0	1	22.1

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-08	2099939	68	70	2	SMI12000514	ALS	3.0	3	0.9
TR12-08	2099940	70	72	2	SMI12000514	ALS	1.0	1	4.4
TR12-08	2099941	72	74	2	SMI12000514	ALS	3.0	3	1.4
TR12-08	2099942	74	76	2	SMI12000514	ALS	1.0	1	1.4
TR12-08	2099943	76	78	2	SMI12000514	ALS	24.0	24	1.7
TR12-08	2099944	78	80	2	SMI12000514	ALS	11.0	11	0.3
TR12-08	2099945	80	82	2	SMI12000514	ALS	3.0	3	1.4
TR12-08	2099946	82	84	2	SMI12000514	ALS	0.5	0.5	0.3
TR12-08	2099947	84	86	2	SMI12000514	ALS	3.0	3	0.5
TR12-08	2099948	94.77	96.77	2	SMI12000514	ALS	3.0	3	0.7
TR12-08	2099949	106.68	108.68	2	SMI12000514	ALS	10.0	10	3.0
TR12-08	2099950	118.37	120.37	2	SMI12000514	ALS	0.5	0.5	1.2
TR12-08	2099951	120.37	122.37	2	SMI12000514	ALS	4.0	4	0.3
TR12-09	2099952	18.29	21.34	3.05	SMI12000520	ALS	170.0	170	43.8
TR12-09	2099953	21.34	23.34	2	SMI12000520	ALS	120.0	120	27.0
TR12-09	2099954	23.34	25.34	2	SMI12000520	ALS	306.0	306	18.9
TR12-09	2099955	25.34	27.34	2	SMI12000520	ALS	229.0	229	279.3
TR12-09	2099956	27.34	30.48	3.14	SMI12000520	ALS	76.0	76	34.3
TR12-09	2099957	30.48	33	2.52	SMI12000520	ALS	53.0	53	22.4
TR12-09	2099958	42	44	2	SMI12000520	ALS	132.0	132	78.3
TR12-09	2099959	44	46	2	SMI12000520	ALS	105.0	105	62.1
TR12-09	2099961	46	48	2	SMI12000520	ALS	148.0	148	398.9
TR12-09	2099962	48	50	2	SMI12000520	ALS	751.0	751	513.3
TR12-09	2099964	50	52	2	SMI12000520	ALS	1200.0	1200	494.3
TR12-09	2099966	52	54	2	SMI12000520	ALS	255.0	255	303.9
TR12-09	2099967	54	56	2	SMI12000520	ALS	699.0	699	296.2
TR12-09	2099968	56	58	2	SMI12000520	ALS	240.0	240	77.8
TR12-09	2099970	58	60	2	SMI12000520	ALS	52.0	52	43.4
TR12-09	2099971	60	62	2	SMI12000520	ALS	71.0	71	78.7
TR12-09	2099972	62	64	2	SMI12000520	ALS	44.0	44	47.8
TR12-09	2099973	64	66	2	SMI12000520	ALS	30.0	30	21.5
TR12-09	2099974	66	68	2	SMI12000520	ALS	28.0	28	20.0
TR12-09	2099975	68	70	2	SMI12000520	ALS	25.0	25	35.5
TR12-09	2099976	70	72	2	SMI12000520	ALS	22.0	22	16.3
TR12-09	2099977	72	74	2	SMI12000520	ALS	62.0	62	81.8
TR12-09	2099978	74	76	2	SMI12000520	ALS	49.0	49	23.5
TR12-09	2099979	76	78	2	SMI12000520	ALS	35.0	35	28.7
TR12-09	2099980	78	80	2	SMI12000520	ALS	193.0	193	276.7
TR12-09	2099981	80	82	2	SMI12000520	ALS	122.0	122	74.4
TR12-09	2099982	82	84	2	SMI12000520	ALS	96.0	96	125.7

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-09	2099983	84	86	2	SMI12000520	ALS	84.0	84	93.5
TR12-09	2099984	86	88	2	SMI12000520	ALS	83.0	83	79.2
TR12-09	2099985	88	90	2	SMI12000520	ALS	126.0	126	123.9
TR12-09	2099986	90	92	2	SMI12000520	ALS	84.0	84	69.6
TR12-09	2099987	92	94	2	SMI12000520	ALS	57.0	57	44.9
TR12-09	2099988	94	96	2	SMI12000520	ALS	68.0	68	211.5
TR12-09	2099989	96	98	2	SMI12000520	ALS	91.0	91	52.9
TR12-09	2099990	98	100	2	SMI12000520	ALS	118.0	118	215.5
TR12-09	2099991	100	102	2	SMI12000520	ALS	57.0	57	54.2
TR12-09	2099992	102	104	2	SMI12000520	ALS	34.0	34	66.6
TR12-09	2099993	104	106	2	SMI12000520	ALS	56.0	56	59.7
TR12-09	2099994	106	108	2	SMI12000520	ALS	11.0	11	12.7
TR12-09	2099995	112.96	114.6	1.64	SMI12000520	ALS	8.0	8	4.7
TR12-09	2099996	114.6	116.6	2	SMI12000520	ALS	6.0	6	0.3
TR12-09	2099997	116.6	118.6	2	SMI12000520	ALS	1.0	1	0.3
TR12-10	2099998	18.29	20	1.71	SMI12000527	ALS	104.0	104	40.4
TR12-10	2099999	20	22	2	SMI12000527	ALS	1685.0	1685	226.2
TR12-10	2100000	22	24	2	SMI12000527	ALS	160.0	160	638.4
TR12-10	2100001	24	26	2	SMI12000527	ALS	31.0	31	49.3
TR12-10	2100002	26	28	2	SMI12000527	ALS	40.0	40	44.9
TR12-10	2100003	28	30	2	SMI12000527	ALS	14.0	14	10.2
TR12-10	2100004	30	32	2	SMI12000527	ALS	3.0	3	0.9
TR12-10	2100005	32	34	2	SMI12000527	ALS	9.0	9	3.6
TR12-10	2100006	34	36	2	SMI12000527	ALS	151.0	151	99.7
TR12-10	2100007	36	38	2	SMI12000527	ALS	298.0	298	198.5
TR12-10	2100009	38	40	2	SMI12000527	ALS	221.0	221	276.8
TR12-10	2100011	40	42	2	SMI12000527	ALS	120.0	120	47.7
TR12-10	2100012	42	44	2	SMI12000527	ALS	80.0	80	78.8
TR12-10	2100013	44	46	2	SMI12000527	ALS	101.0	101	59.0
TR12-10	2100014	46	48	2	SMI12000527	ALS	202.0	202	92.5
TR12-10	2100015	48	50	2	SMI12000527	ALS	104.0	104	43.1
TR12-10	2100016	50	52	2	SMI12000527	ALS	39.0	39	38.2
TR12-10	2100017	52	54	2	SMI12000527	ALS	42.0	42	23.0
TR12-10	2100018	54	56	2	SMI12000527	ALS	212.0	212	99.6
TR12-10	2100019	56	58	2	SMI12000527	ALS	91.0	91	116.4
TR12-10	2100020	58	60	2	SMI12000527	ALS	473.0	473	1052.6
TR12-10	2100021	60	62	2	SMI12000527	ALS	79.0	79	105.4
TR12-10	2100022	62	64	2	SMI12000527	ALS	90.0	90	75.5
TR12-10	2100023	64	66	2	SMI12000527	ALS	108.0	108	80.2
TR12-10	2100024	66	68	2	SMI12000527	ALS	59.0	59	33.0

Hole_ID	Sample#	from	to	length	Certificate	Gold by	Complete Au ppb	Au_ppb ICP21 ALS	Au_ppb_1DX Acme
TR12-10	2100025	68	70	2	SMI12000527	ALS	92.0	92	62.0
TR12-10	2100026	70	72	2	SMI12000527	ALS	133.0	133	74.9
TR12-10	2100027	72	74	2	SMI12000527	ALS	116.0	116	48.8
TR12-10	2100028	74	76	2	SMI12000527	ALS	49.0	49	38.4
TR12-10	2100029	76	78	2	SMI12000527	ALS	98.0	98	124.1
TR12-10	2100030	78	80	2	SMI12000527	ALS	136.0	136	159.5
TR12-10	2100031	80	82	2	SMI12000527	ALS	254.0	254	133.8
TR12-10	2100032	82	84	2	SMI12000527	ALS	180.0	180	223.6
TR12-10	2100033	84	85.39	1.39	SMI12000527	ALS	81.0	81	48.1
TR12-10	2100035	85.39	87.39	2	SMI12000527	ALS	32.0	32	23.1
TR12-10	2100036	87.39	89.39	2	SMI12000527	ALS	44.0	44	21.4
TR12-10	2100037	89.39	91	1.61	SMI12000527	ALS	7.0	7	11.9
TR12-10	2100039	91	93	2	SMI12000527	ALS	13.0	13	7.5
TR12-10	2100040	93	95	2	SMI12000527	ALS	2.0	2	0.3
TR12-10	2100041	95	97	2	SMI12000527	ALS	1.0	1	0.6
TR12-10	2100042	97	99	2	SMI12000527	ALS	0.5	0.5	0.8
TR12-10	2100043	99	101	2	SMI12000527	ALS	1.0	1	1.1
TR12-10	2100044	101	103	2	SMI12000527	ALS	1.0	1	0.3
TR12-10	2100045	103	105	2	SMI12000527	ALS	1.0	1	0.3
TR12-10	2100046	105	107	2	SMI12000527	ALS	2.0	2	0.3
TR12-10	2100047	107	109	2	SMI12000527	ALS	1.0	1	0.3
TR12-10	2100048	109	111	2	SMI12000527	ALS	0.5	0.5	0.3
TR12-10	2100049	111	113	2	SMI12000527	ALS	1.0	1	0.9
TR12-10	2100050	113	115	2	SMI12000527	ALS	3.0	3	0.3
TR12-10	2100051	115	117	2	SMI12000527	ALS	1.0	1	0.3
TR12-10	2100052	117	119	2	SMI12000527	ALS	0.5	0.5	3.0
TR12-10	2100053	119	121	2	SMI12000527	ALS	0.5	0.5	2.6
TR12-10	2100054	131.06	133.06	2	SMI12000527	ALS	1.0	1	1.5
TR12-10	2100055	140.21	142.21	2	SMI12000527	ALS	1.0	1	2.1
TR12-10	2100056	144	146	2	SMI12000527	ALS	2.0	2	2.6

APPENDIX IV Drill Hole details 2012 (collars, surveys, sample sequence, drill core logs, assay certificates and repeats – Acme Labs)

Drill Collar Details - 2012

Hole_ID	x_83	y_83	elev_Z	LENGTH m	azi	dip	overburden m		type	core size	Contractor	company	year	comments
TR12-01	385465	5947378	928	51	180	-50		Cap Zone	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	Lost hole and core barrel 51m
TR12-01A	385465	5947378	928	295.66	180	-65	60.96	Cap Zone	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	Re-drill of TR12-01
TR12-02	385465	5947337	928	301.75	180	-50	53.64	Cap Zone	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-03	385600	5947412	926	249.94	180	-65	51.82	Cap Zone	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-04	384553	5947068	919	181.97	250	-50	74.43	Cap West	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-05	384526	5946337	855	152.4	225	-50	15.24	Camp	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-06	384470	5946385	857	152.4	225	-50	5.58	Camp	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-07	384470	5946590	882	192.02	250	-50	19.32	Camp	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-08	384601	5946603	882	143.26	150	-50	12.26	Camp	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-09	384720	5946701	898	149.35	150	-50	11.09	Camp	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	
TR12-10	384560	5946264	843	149.35	130	-50	18.29	Discovery	core	NQ	Western Exploration Drilling	Venerable Ventures	2012	

2012 Drill hole surveys

Hole-ID	Date	Depth (m)	Azimuth +	Dip	Pull Back (ft)	Surveyed By	Roll (Toolface)	Magnetic Field	Temp °C
TR12-01A	Sep-29	67.06	172.9	-65.4	130	W.Shaw	51.5	5662	13.5
TR12-01A	Sep-29	106.68	173.7	-65.8	300	W.Shaw	312.7	5647	13.5
TR12-01A	Sep-29	198.12	174.6	-66.4	300	W.Shaw	260.5	5651	13.5
TR12-01A	Sep-29	289.56	176.2	-66.5	30	W.Shaw	40	5701	12.4
TR12-02	Oct-01	64.01	176.6	-50.2	30	W.Shaw	38.4	5644	17.4
TR12-02	Oct-01	155.45	176.3	-50.6	30	W.Shaw	278.6	5645	20.2
TR12-02	Oct-02	246.89	176.5	-50.7	30	W.Shaw	4.8	5673	12.7
TR12-02	Oct-02	301.75	176.7	-50.7	30	W.Shaw	350.2	5679	19.5
TR12-03	Oct-04	70.1	71.4	-65.1	30	D.Shaw	286.4	3751	11.9
TR12-03	Oct-04	161.54	190.5	-65.3	30	W.Shaw	123.9	5674	23.9
TR12-03	Oct-04	249.94	188.9	-65.4	30	D.Shaw	318.1	5700	16.7
TR12-05	Oct-13	24.38	233.5	-49.6		W.Shaw	344.7	5633	13.8
TR12-05	Oct-13	76.2	231.4	-50.1	30	D.Shaw	82.4	5578	17.3
TR12-05	Oct-14	152.4	228.3	-50	30	D.Shaw	312.12	5592	19
TR12-06	Oct-16	6.096	233.8	-49		D.Shaw	159.4	5667	13.8
TR12-06	Oct-16	76.2	230.8	-49.8	30	D.Shaw	118.3	5568	15.8
TR12-06	Oct-16	152.4	230.5	-50	30	D.Shaw	85.4	5610	22
TR12-07	Oct-16	27.43	254.6	-50.7	240	W.Shaw	225.2	5581	11.7
TR12-07	Oct-16	100.58	254.2	-51.4	300	W.Shaw	154.9	5559	12.7
TR12-07	Oct-16	192.02	254.8	-51.9	30	W.Shaw	161.7	5553	12.2
TR12-08	Oct-19	15.24	149.5	-51	30	W.Shaw	265	5671	16
TR12-08	Oct-19	143.26	150.7	-53.5	30	D.Shaw	211.7	5591	6
TR12-08	Oct-19	192.02	152.7	-52.1	30	W.Shaw	164.8	5600	15.7
TR12-09	Oct-23	24.38	150.6	-51.8		W.Shaw	70.9	5633	9.9
TR12-09	Oct-23	76.2	150	-52.4		W.Shaw	262.5	5628	15.8
TR12-09	Oct-23	146.3	151.1	-52	30	W.Shaw	77.7	5605	12.3
TR12-10	Oct-24	21.34	130.8	-48.8	30	W.Shaw	224.4	5619	8.1
TR12-10	Oct-24	76.2	130.6	-49.3	240	W.Shaw	138.8	5647	12.9
TR12-10	Oct-24	149.35	130.9	-49.3	30	W.Shaw	232.1	5620	9.5

Trout drilling 2012 - Sample intervals

Hole_ID	Sample#	from	to	length	
TR12-01A	2099351	69	71		2
TR12-01A	2099352	71	73		2
TR12-01A	2099353	73	75		2
TR12-01A	2099354	75	77		2
TR12-01A	2099355	77	79		2
TR12-01A	2099356	79	81		2
TR12-01A	2099357	81	83		2
TR12-01A	2099358	83	85		2
TR12-01A	2099359	85	87		2
TR12-01A	2099360	87	89		2
TR12-01A	2099361	89	91		2
TR12-01A	2099362	91	93		2
TR12-01A	2099363	93	95		2
TR12-01A	2099364	95	97		2
TR12-01A	2099365	97	99		2
TR12-01A	2099366	99	101		2
TR12-01A	2099367	101	103		2
TR12-01A	2099368	103	105		2
TR12-01A	2099369	105	107		2
TR12-01A	2099370	107	109		2
TR12-01A	2099371	109	111		2
TR12-01A	2099372	111	113		2
TR12-01A	2099373	113	115		2
TR12-01A	2099374	115	117		2
TR12-01A	2099375	117	119		2
TR12-01A	2099376	119	121		2
TR12-01A	2099377	121	123		2
TR12-01A	2099378	123	125		2
TR12-01A	2099379	125	127		2
TR12-01A	2099380	127	129		2
TR12-01A	2099381	129	131		2
TR12-01A	2099382	131	133		2
TR12-01A	2099383	133	135		2
TR12-01A	2099384	135	137		2
TR12-01A	2099385	137	139		2
TR12-01A	2099386	-1	-1		0
TR12-01A	2099387	139	141		2
TR12-01A	2099388	141	143		2
TR12-01A	2099389	143	145		2
TR12-01A	2099390	145	147		2
TR12-01A	2099391	147	149		2
TR12-01A	2099392	149	151		2
TR12-01A	2099393	151	153		2
TR12-01A	2099394	153	155		2
TR12-01A	2099395	155	157		2
TR12-01A	2099396	157	159		2
TR12-01A	2099397	159	161		2
TR12-01A	2099398	161	163		2
TR12-01A	2099399	163	165		2
TR12-01A	2099400	165	167		2
TR12-01A	2099401	167	169		2
TR12-01A	2099402	169	171		2
TR12-01A	2099403	171	173		2
TR12-01A	2099404	173	175		2
TR12-01A	2099405	-3	-3		0
TR12-01A	2099406	175	177		2
TR12-01A	2099407	177	179		2
TR12-01A	2099408	179	181		2
TR12-01A	2099409	181	183		2
TR12-01A	2099410	183	185		2
TR12-01A	2099411	185	187		2

Hole_ID	Sample#	from	to	length	
TR12-04	2099702	91	93		2
TR12-04	2099703	93	95		2
TR12-04	2099704	95	97		2
TR12-04	2099705	97	99		2
TR12-04	2099706	99	101		2
TR12-04	2099707	101	103		2
TR12-04	2099708	103	105		2
TR12-04	2099709	105	107		2
TR12-04	2099710	107	109		2
TR12-04	2099711	109	111		2
TR12-04	2099712	111	113		2
TR12-04	2099713	113	115		2
TR12-04	2099714	115	117		2
TR12-04	2099715	117	119		2
TR12-04	2099716	119	121		2
TR12-04	2099717	121	123		2
TR12-04	2099718	123	125		2
TR12-04	2099719	125	127		2
TR12-04	2099720	127	129		2
TR12-04	2099721	129	131		2
TR12-04	2099722	131	133		2
TR12-04	2099723	133	135		2
TR12-04	2099724	135	137		2
TR12-04	2099725	137	139		2
TR12-04	2099726	139	141		2
TR12-04	2099727	141	143		2
TR12-04	2099728	143	145		2
TR12-04	2099729	145	147		2
TR12-04	2099730	147	149		2
TR12-04	2099731	149	151		2
TR12-04	2099732	151	153		2
TR12-04	2099733	153	155		2
TR12-04	2099734	155	157		2
TR12-04	2099735	157	159		2
TR12-04	2099736	159	161		2
TR12-04	2099737	161	163		2
TR12-04	2099738	163	165		2
TR12-04	2099739	165	167		2
TR12-04	2099740	167	169		2
TR12-04	2099741	169	171		2
TR12-04	2099742	-2	-2	blank standard	
TR12-04	2099743	171	173		2
TR12-04	2099744	-1	-1	duplicate of 743	
TR12-04	2099745	173	175		2
TR12-04	2099746	-4	-4	high grade standard	
TR12-04	2099747	175	177		2
TR12-04	2099748	177	179		2
TR12-04	2099749	-3	-3	low grade standard	
TR12-04	2099750	179	181		2
TR12-04	2099751	181	181.97		0.97
TR12-05	2099752	16	18		2
TR12-05	2099753	18	20		2
TR12-05	2099754	20	22		2
TR12-05	2099755	22	24		2
TR12-05	2099756	24	26		2
TR12-05	2099757	26	28		2
TR12-05	2099758	28	30		2
TR12-05	2099759	30	32		2
TR12-05	2099760	32	34		2
TR12-05	2099761	34	36		2
TR12-05	2099762	36	38		2

Trout drilling 2012 - Sample intervals

Hole_ID	Sample#	from	to	length
TR12-01A	2099412	187	189	2
TR12-01A	2099413	189	191	2
TR12-01A	2099414	191	193	2
TR12-01A	2099415	193	195	2
TR12-01A	2099416	195	197	2
TR12-01A	2099417	197	199	2
TR12-01A	2099418	199	201	2
TR12-01A	2099419	201	203	2
TR12-01A	2099420	-2	-2	
TR12-01A	2099421	203	205	2
TR12-01A	2099422	205	207	2
TR12-01A	2099423	-4	-4	
TR12-01A	2099424	207	209	2
TR12-01A	2099425	209	211	2
TR12-01A	2099426	211	213	2
TR12-01A	2099427	213	215	2
TR12-01A	2099428	215	217	2
TR12-01A	2099429	217	219	2
TR12-01A	2099430	219	221	2
TR12-01A	2099431	221	223	2
TR12-01A	2099432	223	225	2
TR12-01A	2099433	225	227	2
TR12-01A	2099434	227	229	2
TR12-01A	2099435	229	231	2
TR12-01A	2099436	231	233	2
TR12-01A	2099437	233	235	2
TR12-01A	2099438	235	237	2
TR12-01A	2099439	237	239	2
TR12-01A	2099440	239	241	2
TR12-01A	2099441	241	243	2
TR12-01A	2099442	243	245	2
TR12-01A	2099443	245	247	2
TR12-01A	2099444	247	249	2
TR12-01A	2099445	249	251	2
TR12-01A	2099446	251	253	2
TR12-01A	2099447	253	255	2
TR12-01A	2099448	255	257	2
TR12-01A	2099449	257	259	2
TR12-01A	2099450	259	261	2
TR12-01A	2099451	261	263	2
TR12-01A	2099452	263	265	2
TR12-01A	2099453	265	267	2
TR12-01A	2099454	267	269	2
TR12-01A	2099455	269	271	2
TR12-01A	2099456	271	273	2
TR12-01A	2099457	273	275	2
TR12-01A	2099458	275	277	2
TR12-01A	2099459	277	279	2
TR12-01A	2099460	279	281	2
TR12-01A	2099461	281	283	2
TR12-01A	2099462	283	285	2
TR12-01A	2099463	285	287	2
TR12-01A	2099464	287	289	2
TR12-01A	2099465	289	291	2
TR12-01A	2099466	291	293	2
TR12-01A	2099467	293	295	2
TR12-01A	2099468	295	296.5	1.5
TR12-02	2099469	57	59	2
TR12-02	2099470	59	61	2
TR12-02	2099471	61	63	2
TR12-02	2099472	63	65	2

Hole_ID	Sample#	from	to	length
TR12-05	2099763	38	40	2
TR12-05	2099764	40	42	2
TR12-05	2099765	42	44	2
TR12-05	2099766	44	46	2
TR12-05	2099767	46	48	2
TR12-05	2099768	48	50	2
TR12-05	2099769	50	52	2
TR12-05	2099770	52	54	2
TR12-05	2099771	54	56	2
TR12-05	2099772	56	58	2
TR12-05	2099773	58	60	2
TR12-05	2099774	60	62	2
TR12-05	2099775	62	64	2
TR12-05	2099776	64	66	2
TR12-05	2099777	66	68	2
TR12-05	2099778	68	70	2
TR12-05	2099779	70	72	2
TR12-05	2099780	72	74	2
TR12-05	2099781	74	76	2
TR12-05	2099782	76	78	2
TR12-05	2099783	78	80	2
TR12-05	2099784	80	82	2
TR12-05	2099785	82	84	2
TR12-05	2099786	84	86	2
TR12-05	2099787	86	87.03	1.03
TR12-05	2099788	87.03	88.36	1.33
TR12-05	2099789	-3	-3	low grade standard
TR12-05	2099790	88.36	89.89	1.53
TR12-05	2099791	89.89	92	1.11
TR12-05	2099792	-1	-1	duplicate of 791
TR12-05	2099793	92	94	2
TR12-05	2099794	94	96	2
TR12-05	2099795	96	98	2
TR12-05	2099796	98	100	2
TR12-05	2099797	100	102	2
TR12-05	2099798	102	104	2
TR12-05	2099799	104	106	2
TR12-05	2099800	106	108	2
TR12-05	2099801	108	110	2
TR12-05	2099802	110	112	2
TR12-05	2099803	112	114	2
TR12-05	2099804	114	114.62	0.62
TR12-05	2099805	114.62	116.64	2
TR12-05	2099806	116.64	118.64	2
TR12-05	2099807	118.64	119.82	1.18
TR12-05	2099808	119.82	121.82	2
TR12-05	2099809	121.82	122.64	0.82
TR12-05	2099810	-4	-4	high grade standard
TR12-05	2099811	122.64	124.64	2
TR12-05	2099812	124.64	127.3	2.66
TR12-05	2099813	-2	-2	blank standard
TR12-05	2099814	127.3	129	1.7
TR12-05	2099815	129	131	2
TR12-05	2099816	131	133	2
TR12-05	2099817	133	135	2
TR12-05	2099818	135	137	2
TR12-05	2099819	137	139	2
TR12-05	2099820	139	141	2
TR12-05	2099821	141	143	2
TR12-05	2099822	143	145	2
TR12-05	2099823	145	147	2

Trout drilling 2012 - Sample intervals

Hole_ID	Sample#	from	to	length
TR12-02	2099473	65	67	2
TR12-02	2099474	67	69	2
TR12-02	2099475	69	71	2
TR12-02	2099476	71	73	2
TR12-02	2099477	73	75	2
TR12-02	2099478	75	77	2
TR12-02	2099479	77	79	2
TR12-02	2099480	79	81	2
TR12-02	2099481	81	83	2
TR12-02	2099482	83	85	2
TR12-02	2099483	85	87	2
TR12-02	2099484	87	89	2
TR12-02	2099485	89	91	2
TR12-02	2099486	91	93	2
TR12-02	2099487	93	95	2
TR12-02	2099488	95	97	2
TR12-02	2099489	97	99	2
TR12-02	2099490	99	101	2
TR12-02	2099491	101	103	2
TR12-02	2099492	103	105	2
TR12-02	2099493	105	107	2
TR12-02	2099494	107	109	2
TR12-02	2099495	109	111	2
TR12-02	2099496	111	113	2
TR12-02	2099497	113	115	2
TR12-02	2099498	115	117	2
TR12-02	2099499	117	119	2
TR12-02	2099500	119	121	2
TR12-02	2099501	121	123	2
TR12-02	2099502	123	125	2
TR12-02	2099503	125	127	2
TR12-02	2099504	127	129	2
TR12-02	2099505	129	131	2
TR12-02	2099506	131	133	2
TR12-02	2099507	133	135	2
TR12-02	2099508	135	137	2
TR12-02	2099509	137	139	2
TR12-02	2099510	139	141	2
TR12-02	2099511	141	143	2
TR12-02	2099512	143	145	2
TR12-02	2099513	145	147	2
TR12-02	2099514	147	149	2
TR12-02	2099515	149	151	2
TR12-02	2099516	151	153	2
TR12-02	2099517	153	155	2
TR12-02	2099518	155	157	2
TR12-02	2099519	157	159	2
TR12-02	2099520	159	161	2
TR12-02	2099521	161	163	2
TR12-02	2099522	163	165	2
TR12-02	2099523	165	167	2
TR12-02	2099524	167	169	2
TR12-02	2099525	169	171	2
TR12-02	2099526	171	173	2
TR12-02	2099527	173	175	2
TR12-02	2099528	175	177	2
TR12-02	2099529	177	179	2
TR12-02	2099530	179	181	2
TR12-02	2099531	181	183	2
TR12-02	2099532	183	185	2
TR12-02	2099533	185	187	2

Hole_ID	Sample#	from	to	length
TR12-05	2099824	147	149	2
TR12-05	2099825	149	151	2
TR12-05	2099826	151	152.4	1.4
TR12-06	2099827	5	7	2
TR12-06	2099828	7	9	2
TR12-06	2099829	9	11	2
TR12-06	2099830	11	13	2
TR12-06	2099831	13	15	2
TR12-06	2099832	15	17	2
TR12-06	2099833	17	19	2
TR12-06	2099834	19	21	2
TR12-06	2099835	21	23	2
TR12-06	2099836	23	25	2
TR12-06	2099837	25	27	2
TR12-06	2099838	27	29	2
TR12-06	2099839	29	31	2
TR12-06	2099840	31	33	2
TR12-06	2099841	33	35	2
TR12-06	2099842	35	37	2
TR12-06	2099843	37	39	2
TR12-06	2099844	39	41	2
TR12-06	2099845	41	43	2
TR12-06	2099846	43	45	2
TR12-06	2099847	45	47	2
TR12-06	2099848	47	49	2
TR12-06	2099849	49	51	2
TR12-06	2099850	51	53	2
TR12-06	2099851	53	55	2
TR12-06	2099852	55	57	2
TR12-06	2099853	57	59	2
TR12-06	2099854	59	61	2
TR12-06	2099855	61	63	2
TR12-06	2099856	63	65	2
TR12-06	2099857	65	67	2
TR12-06	2099858	67	69	2
TR12-06	2099859	69	71	2
TR12-06	2099860	71	73	2
TR12-06	2099861	73	75	2
TR12-06	2099862	75	77	2
TR12-06	2099863	77	79	2
TR12-06	2099864	-2	-2	blank standard
TR12-06	2099865	79	81	2
TR12-06	2099866	81	83	2
TR12-06	2099867	83	85	2
TR12-06	2099868	85	85.7	0.7
TR12-06	2099869	-4	-4	high grade standard
TR12-06	2099870	85.7	87.7	2
TR12-06	2099871	87.7	89.94	2.24
TR12-06	2099872	-1	-1	duplicate of 871
TR12-06	2099873	89.94	90.5	0.56
TR12-06	2099874	90.5	92	1.5
TR12-06	2099875	-3	-3	low grade standard
TR12-06	2099876	92	94	2
TR12-06	2099877	94	96	2
TR12-06	2099878	96	98	2
TR12-06	2099879	98	100	2
TR12-06	2099880	100	102	2
TR12-06	2099881	102	104	2
TR12-06	2099882	104	106	2
TR12-06	2099883	106	108	2
TR12-06	2099884	108	110	2

Trout drilling 2012 - Sample intervals

Hole_ID	Sample#	from	to	length
TR12-02	2099534	187	189	2
TR12-02	2099535	189	191	2
TR12-02	2099536	191	193	2
TR12-02	2099537	193	195	2
TR12-02	2099538	195	197	2
TR12-02	2099539	197	199	2
TR12-02	2099540	199	201	2
TR12-02	2099541	201	203	2
TR12-02	2099542	203	205	2
TR12-02	2099543	-1	-1	duplicate of 542
TR12-02	2099544	205	207	2
TR12-02	2099545	207	209	2
TR12-02	2099546	209	211	2
TR12-02	2099547	211	213	2
TR12-02	2099548	213	215	2
TR12-02	2099549	215	217	2
TR12-02	2099550	217	219	2
TR12-02	2099551	219	221	2
TR12-02	2099552	221	223	2
TR12-02	2099553	223	225	2
TR12-02	2099554	225	227	2
TR12-02	2099555	227	229	2
TR12-02	2099556	229	231	2
TR12-02	2099557	231	233	2
TR12-02	2099558	233	235	2
TR12-02	2099559	235	237	2
TR12-02	2099560	237	239	2
TR12-02	2099561	239	241	2
TR12-02	2099562	241	243	2
TR12-02	2099563	243	245	2
TR12-02	2099564	-3	-3	low grade standard
TR12-02	2099565	245	247	2
TR12-02	2099566	247	249	2
TR12-02	2099567	249	251	2
TR12-02	2099568	251	253	2
TR12-02	2099569	253	255	2
TR12-02	2099570	255	257	2
TR12-02	2099571	257	259	2
TR12-02	2099572	259	261	2
TR12-02	2099573	-4	-4	high grade standard
TR12-02	2099574	261	263	2
TR12-02	2099575	263	265	2
TR12-02	2099576	265	267	2
TR12-02	2099577	267	269	2
TR12-02	2099578	269	271	2
TR12-02	2099579	-2	-2	blank standard
TR12-02	2099580	271	273	2
TR12-02	2099581	273	275	2
TR12-02	2099582	275	277	2
TR12-02	2099583	277	279	2
TR12-02	2099584	279	281	2
TR12-02	2099585	281	283	2
TR12-02	2099586	283	285	2
TR12-02	2099587	285	287	2
TR12-02	2099588	287	289	2
TR12-02	2099589	289	291	2
TR12-02	2099590	291	293	2
TR12-02	2099591	293	295	2
TR12-02	2099592	295	297	2
TR12-02	2099593	297	299	2
TR12-02	2099594	299	301	2

Hole_ID	Sample#	from	to	length
TR12-06	2099885	110	112	2
TR12-06	2099886	112	114	2
TR12-06	2099887	114	116	2
TR12-06	2099888	116	118	2
TR12-06	2099889	118	120	2
TR12-06	2099890	120	122	2
TR12-06	2099891	122	124	2
TR12-06	2099892	124	126	2
TR12-06	2099893	126	128	2
TR12-06	2099894	128	130	2
TR12-06	2099895	130	132	2
TR12-06	2099896	132	134	2
TR12-06	2099897	134	136	2
TR12-06	2099898	136	138	2
TR12-06	2099899	138	140	2
TR12-06	2099900	140	142	2
TR12-06	2099901	142	144	2
TR12-06	2099902	144	146	2
TR12-06	2099903	146	148	2
TR12-06	2099904	148	150	2
TR12-06	2099905	150	152	2
TR12-06	2099906	152	152.4	0.4
TR12-08	2099907	12.26	14	1.74
TR12-08	2099908	14	16	2
TR12-08	2099909	16	18	2
TR12-08	2099910	18	20	2
TR12-08	2099911	20	22	2
TR12-08	2099912	22	24	2
TR12-08	2099913	24	26	2
TR12-08	2099914	-1	-1	duplicate of 913
TR12-08	2099915	26	28	2
TR12-08	2099916	-3	-3	low grade standard
TR12-08	2099917	28	30	2
TR12-08	2099918	30	32	2
TR12-08	2099919	32	34	2
TR12-08	2099920	34	36	2
TR12-08	2099921	36	38	2
TR12-08	2099922	38	40	2
TR12-08	2099923	40	42	2
TR12-08	2099924	-4	-4	high grade standard
TR12-08	2099925	42	44	2
TR12-08	2099926	44	46	2
TR12-08	2099927	46	48	2
TR12-08	2099928	48	50	2
TR12-08	2099929	50	52	2
TR12-08	2099930	52	54	2
TR12-08	2099931	-2	-2	blank standard
TR12-08	2099932	54	56	2
TR12-08	2099933	56	58	2
TR12-08	2099934	58	60	2
TR12-08	2099935	60	62	2
TR12-08	2099936	62	64	2
TR12-08	2099937	64	66	2
TR12-08	2099938	66	68	2
TR12-08	2099939	68	70	2
TR12-08	2099940	70	72	2
TR12-08	2099941	72	74	2
TR12-08	2099942	74	76	2
TR12-08	2099943	76	78	2
TR12-08	2099944	78	80	2
TR12-08	2099945	80	82	2

Trout drilling 2012 - Sample intervals

Hole_ID	Sample#	from	to	length
TR12-02	2099595	301	301.75	0.75
TR12-03	2099596	63	65	2
TR12-03	2099597	65	67	2
TR12-03	2099598	67	69	2
TR12-03	2099599	69	71	2
TR12-03	2099600	71	73	2
TR12-03	2099601	73	75	2
TR12-03	2099602	75	77	2
TR12-03	2099603	77	79	2
TR12-03	2099604	79	81	2
TR12-03	2099605	81	83	2
TR12-03	2099606	83	85	2
TR12-03	2099607	85	87	2
TR12-03	2099608	87	89	2
TR12-03	2099609	89	91	2
TR12-03	2099610	91	93	2
TR12-03	2099611	93	95	2
TR12-03	2099612	95	97	2
TR12-03	2099613	97	99	2
TR12-03	2099614	99	101	2
TR12-03	2099615	101	103	2
TR12-03	2099616	103	105	2
TR12-03	2099617	105	107	2
TR12-03	2099618	107	109	2
TR12-03	2099619	109	111	2
TR12-03	2099620	111	113	2
TR12-03	2099621	113	115	2
TR12-03	2099622	115	117	2
TR12-03	2099623	117	119	2
TR12-03	2099624	119	121	2
TR12-03	2099625	121	123	2
TR12-03	2099626	123	125	2
TR12-03	2099627	125	127	2
TR12-03	2099628	127	129	2
TR12-03	2099629	129	131	2
TR12-03	2099630	131	133	2
TR12-03	2099631	133	135	2
TR12-03	2099632	135	137	2
TR12-03	2099633	137	139	2
TR12-03	2099634	139	141	2
TR12-03	2099635	141	143	2
TR12-03	2099636	143	145	2
TR12-03	2099637	145	147	2
TR12-03	2099638	147	149	2
TR12-03	2099639	149	151	2
TR12-03	2099640	151	153	2
TR12-03	2099641	153	155	2
TR12-03	2099642	155	157	2
TR12-03	2099643	157	159	2
TR12-03	2099644	159	161	2
TR12-03	2099645	161	163	2
TR12-03	2099646	163	165	2
TR12-03	2099647	165	167	2
TR12-03	2099648	167	169	2
TR12-03	2099649	169	171	2
TR12-03	2099650	171	173	2
TR12-03	2099651	173	175	2
TR12-03	2099652	175	177	2
TR12-03	2099653	177	179	2
TR12-03	2099654	179	181	2
TR12-03	2099655	181	183	2

Hole_ID	Sample#	from	to	length
TR12-08	2099946	82	84	2
TR12-08	2099947	84	86	2
TR12-08	2099948	94.77	96.77	2
TR12-08	2099949	106.68	108.68	2
TR12-08	2099950	118.37	120.37	2
TR12-08	2099951	120.37	122.37	2
TR12-09	2099952	18.29	21.34	3.05
TR12-09	2099953	21.34	23.34	2
TR12-09	2099954	23.34	25.34	2
TR12-09	2099955	25.34	27.34	2
TR12-09	2099956	27.34	30.48	3.14
TR12-09	2099957	30.48	33	2.52
TR12-09	2099958	42	44	2
TR12-09	2099959	44	46	2
TR12-09	2099960	-2	-2	blank standard
TR12-09	2099961	46	48	2
TR12-09	2099962	48	50	2
TR12-09	2099963	-1	-1	duplicate of 962
TR12-09	2099964	50	52	2
TR12-09	2099965	-4	-4	high grade standard
TR12-09	2099966	52	54	2
TR12-09	2099967	54	56	2
TR12-09	2099968	56	58	2
TR12-09	2099969	-3	-3	low grade standard
TR12-09	2099970	58	60	2
TR12-09	2099971	60	62	2
TR12-09	2099972	62	64	2
TR12-09	2099973	64	66	2
TR12-09	2099974	66	68	2
TR12-09	2099975	68	70	2
TR12-09	2099976	70	72	2
TR12-09	2099977	72	74	2
TR12-09	2099978	74	76	2
TR12-09	2099979	76	78	2
TR12-09	2099980	78	80	2
TR12-09	2099981	80	82	2
TR12-09	2099982	82	84	2
TR12-09	2099983	84	86	2
TR12-09	2099984	86	88	2
TR12-09	2099985	88	90	2
TR12-09	2099986	90	92	2
TR12-09	2099987	92	94	2
TR12-09	2099988	94	96	2
TR12-09	2099989	96	98	2
TR12-09	2099990	98	100	2
TR12-09	2099991	100	102	2
TR12-09	2099992	102	104	2
TR12-09	2099993	104	106	2
TR12-09	2099994	106	108	2
TR12-09	2099995	112.96	114.6	1.64
TR12-09	2099996	114.6	116.6	2
TR12-09	2099997	116.6	118.6	2
TR12-10	2099998	18.29	20	1.71
TR12-10	2099999	20	22	2
TR12-10	2100000	22	24	2
TR12-10	2100001	24	26	2
TR12-10	2100002	26	28	2
TR12-10	2100003	28	30	2
TR12-10	2100004	30	32	2
TR12-10	2100005	32	34	2
TR12-10	2100006	34	36	2

Trout drilling 2012 - Sample intervals

Hole_ID	Sample#	from	to	length
TR12-03	2099656	-1	-1	duplicate of 655
TR12-03	2099657	183	185	2
TR12-03	2099658	-3	-3	low grade standard
TR12-03	2099659	185	187	2
TR12-03	2099660	187	189	2
TR12-03	2099661	189	191	2
TR12-03	2099662	-2	-2	blank standard
TR12-03	2099663	191	193	2
TR12-03	2099664	193	195	2
TR12-03	2099665	195	197	2
TR12-03	2099666	197	199	2
TR12-03	2099667	199	201	2
TR12-03	2099668	201	203	2
TR12-03	2099669	203	205	2
TR12-03	2099670	205	207	2
TR12-03	2099671	-4	-4	high grade standard
TR12-03	2099672	207	209	2
TR12-03	2099673	209	211	2
TR12-03	2099674	211	213	2
TR12-03	2099675	213	215	2
TR12-03	2099676	215	217	2
TR12-03	2099677	217	219	2
TR12-03	2099678	219	221	2
TR12-03	2099679	221	223	2
TR12-03	2099680	223	225	2
TR12-03	2099681	225	227	2
TR12-03	2099682	227	229	2
TR12-03	2099683	229	231	2
TR12-03	2099684	231	233	2
TR12-03	2099685	233	235	2
TR12-03	2099686	235	237	2
TR12-03	2099687	237	239	2
TR12-03	2099688	239	241	2
TR12-03	2099689	241	243	2
TR12-03	2099690	243	245	2
TR12-03	2099691	245	247	2
TR12-03	2099692	247	249	2
TR12-03	2099693	249	249.94	0.94
TR12-04	2099694	75	77	2
TR12-04	2099695	77	79	2
TR12-04	2099696	79	81	2
TR12-04	2099697	81	83	2
TR12-04	2099698	83	85	2
TR12-04	2099699	85	87	2
TR12-04	2099700	87	89	2
TR12-04	2099701	89	91	2

Hole_ID	Sample#	from	to	length
TR12-10	2100007	36	38	2
TR12-10	2100008	-3	-3	low grade standard
TR12-10	2100009	38	40	2
TR12-10	2100010	-1	-1	duplicate of 009
TR12-10	2100011	40	42	2
TR12-10	2100012	42	44	2
TR12-10	2100013	44	46	2
TR12-10	2100014	46	48	2
TR12-10	2100015	48	50	2
TR12-10	2100016	50	52	2
TR12-10	2100017	52	54	2
TR12-10	2100018	54	56	2
TR12-10	2100019	56	58	2
TR12-10	2100020	58	60	2
TR12-10	2100021	60	62	2
TR12-10	2100022	62	64	2
TR12-10	2100023	64	66	2
TR12-10	2100024	66	68	2
TR12-10	2100025	68	70	2
TR12-10	2100026	70	72	2
TR12-10	2100027	72	74	2
TR12-10	2100028	74	76	2
TR12-10	2100029	76	78	2
TR12-10	2100030	78	80	2
TR12-10	2100031	80	82	2
TR12-10	2100032	82	84	2
TR12-10	2100033	84	85.39	1.39
TR12-10	2100034	-2	-2	blank standard
TR12-10	2100035	85.39	87.39	2
TR12-10	2100036	87.39	89.39	2
TR12-10	2100037	89.39	91	1.61
TR12-10	2100038	-4	-4	high grade standard
TR12-10	2100039	91	93	2
TR12-10	2100040	93	95	2
TR12-10	2100041	95	97	2
TR12-10	2100042	97	99	2
TR12-10	2100043	99	101	2
TR12-10	2100044	101	103	2
TR12-10	2100045	103	105	2
TR12-10	2100046	105	107	2
TR12-10	2100047	107	109	2
TR12-10	2100048	109	111	2
TR12-10	2100049	111	113	2
TR12-10	2100050	113	115	2
TR12-10	2100051	115	117	2
TR12-10	2100052	117	119	2
TR12-10	2100053	119	121	2
TR12-10	2100054	131.06	133.06	2
TR12-10	2100055	140.21	142.21	2
TR12-10	2100056	144	146	2

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-01A	69.00	71.00	2.00	SMI12000489	2099351	0.5	0.1	1.6	28.3	6.0	33
TR12-01A	71.00	73.00	2.00	SMI12000489	2099352	5.7	0.1	36.6	33.5	7.0	48
TR12-01A	73.00	75.00	2.00	SMI12000489	2099353	1.2	0.2	5.5	37.1	8.5	50
TR12-01A	75.00	77.00	2.00	SMI12000489	2099354	7.2	0.6	23.0	25.2	30.2	85
TR12-01A	77.00	79.00	2.00	SMI12000489	2099355	6.1	0.6	41.9	7.2	30.7	98
TR12-01A	79.00	81.00	2.00	SMI12000489	2099356	7.1	0.6	27.4	27.0	24.4	71
TR12-01A	81.00	83.00	2.00	SMI12000489	2099357	5.4	0.8	17.8	62.7	19.5	101
TR12-01A	83.00	85.00	2.00	SMI12000489	2099358	8.1	1.0	46.9	72.0	50.1	146
TR12-01A	85.00	87.00	2.00	SMI12000489	2099359	7.1	1.3	34.6	97.3	70.2	151
TR12-01A	87.00	89.00	2.00	SMI12000489	2099360	16.1	1.3	46.8	95.4	42.9	158
TR12-01A	89.00	91.00	2.00	SMI12000489	2099361	10.4	1.2	18.6	55.3	30.1	149
TR12-01A	91.00	93.00	2.00	SMI12000489	2099362	5.5	0.9	13.7	58.0	68.1	162
TR12-01A	93.00	95.00	2.00	SMI12000489	2099363	5.9	0.6	6.5	47.2	23.9	114
TR12-01A	95.00	97.00	2.00	SMI12000489	2099364	6.7	0.6	13.3	44.0	41.9	128
TR12-01A	97.00	99.00	2.00	SMI12000489	2099365	1.6	0.3	87.9	32.5	21.8	72
TR12-01A	99.00	101.00	2.00	SMI12000489	2099366	4.2	0.7	82.5	64.8	20.9	91
TR12-01A	101.00	103.00	2.00	SMI12000489	2099367	0.3	0.2	17.8	42.4	11.6	74
TR12-01A	103.00	105.00	2.00	SMI12000489	2099368	9.3	0.9	37.8	35.7	84.2	243
TR12-01A	105.00	107.00	2.00	SMI12000489	2099369	5.3	0.7	36.7	20.4	34.1	68
TR12-01A	107.00	109.00	2.00	SMI12000489	2099370	5.6	0.4	44.3	17.8	29.0	87
TR12-01A	109.00	111.00	2.00	SMI12000489	2099371	11.7	0.9	106.4	28.0	94.6	301
TR12-01A	111.00	113.00	2.00	SMI12000489	2099372	15.2	1.1	17.8	21.9	38.5	124
TR12-01A	113.00	115.00	2.00	SMI12000489	2099373	7.5	0.6	8.0	4.7	36.4	110
TR12-01A	115.00	117.00	2.00	SMI12000489	2099374	4.8	0.4	3.2	4.6	29.5	102
TR12-01A	117.00	119.00	2.00	SMI12000489	2099375	5.8	0.5	3.4	6.7	25.9	86
TR12-01A	119.00	121.00	2.00	SMI12000489	2099376	6.4	0.6	2.4	8.4	31.6	103
TR12-01A	121.00	123.00	2.00	SMI12000489	2099377	4.0	0.4	2.2	19.1	23.4	119
TR12-01A	123.00	125.00	2.00	SMI12000489	2099378	11.2	0.6	2.9	5.8	28.6	78
TR12-01A	125.00	127.00	2.00	SMI12000489	2099379	7.4	0.8	2.4	9.4	57.2	142
TR12-01A	127.00	129.00	2.00	SMI12000489	2099380	4.3	0.5	2.9	10.6	24.5	85
TR12-01A	129.00	131.00	2.00	SMI12000489	2099381	8.1	0.6	1.9	4.2	39.2	105
TR12-01A	131.00	133.00	2.00	SMI12000489	2099382	6.7	0.5	1.0	6.0	34.0	104
TR12-01A	133.00	135.00	2.00	SMI12000489	2099383	16.0	0.7	3.6	12.4	25.5	58
TR12-01A	135.00	137.00	2.00	SMI12000489	2099384	18.7	0.8	6.3	14.3	25.1	32
TR12-01A	137.00	139.00	2.00	SMI12000489	2099385	11.9	0.9	1.8	4.8	74.2	384
TR12-01A	139.00	141.00	2.00	SMI12000489	2099387	7.9	0.8	3.2	4.3	69.2	154
TR12-01A	141.00	143.00	2.00	SMI12000489	2099388	7.2	0.4	1.5	21.4	15.9	47
TR12-01A	143.00	145.00	2.00	SMI12000489	2099389	7.2	0.4	1.4	24.4	13.8	54
TR12-01A	145.00	147.00	2.00	SMI12000489	2099390	9.7	0.7	4.1	7.1	51.3	118
TR12-01A	147.00	149.00	2.00	SMI12000489	2099391	7.7	0.8	2.6	6.3	114.4	283
TR12-01A	149.00	151.00	2.00	SMI12000489	2099392	8.6	0.9	3.7	11.0	112.3	249
TR12-01A	151.00	153.00	2.00	SMI12000489	2099393	5.6	0.4	4.5	3.6	15.1	53
TR12-01A	153.00	155.00	2.00	SMI12000489	2099394	7.1	0.5	6.1	3.4	22.2	82
TR12-01A	155.00	157.00	2.00	SMI12000489	2099395	8.9	0.6	4.3	3.2	18.4	63
TR12-01A	157.00	159.00	2.00	SMI12000489	2099396	7.9	0.4	5.9	4.8	22.8	55
TR12-01A	159.00	161.00	2.00	SMI12000489	2099397	4.1	0.3	5.0	7.9	22.1	49
TR12-01A	161.00	163.00	2.00	SMI12000489	2099398	3.7	0.3	4.4	8.9	14.0	54
TR12-01A	163.00	165.00	2.00	SMI12000489	2099399	2.8	0.4	6.0	5.4	22.1	41
TR12-01A	165.00	167.00	2.00	SMI12000489	2099400	11.1	0.7	9.4	8.4	33.2	80
TR12-01A	167.00	169.00	2.00	SMI12000489	2099401	3.4	0.6	6.4	6.3	30.4	89
TR12-01A	169.00	171.00	2.00	SMI12000489	2099402	7.4	0.4	3.3	4.5	35.7	108
TR12-01A	171.00	173.00	2.00	SMI12000489	2099403	6.6	0.3	5.7	25.6	20.0	116
TR12-01A	173.00	175.00	2.00	SMI12000489	2099404	7.9	0.4	6.0	23.9	39.3	178
TR12-01A	175.00	177.00	2.00	SMI12000489	2099406	2.7	0.6	4.2	4.5	26.3	100
TR12-01A	177.00	179.00	2.00	SMI12000489	2099407	7.9	0.8	3.2	11.0	47.0	121
TR12-01A	179.00	181.00	2.00	SMI12000489	2099408	10.0	1.2	3.1	7.8	38.1	174
TR12-01A	181.00	183.00	2.00	SMI12000489	2099409	18.5	1.0	4.5	2.8	37.3	123
TR12-01A	183.00	185.00	2.00	SMI12000489	2099410	10.0	0.4	4.1	2.2	29.5	73
TR12-01A	185.00	187.00	2.00	SMI12000489	2099411	8.0	0.4	5.7	3.2	21.1	111
TR12-01A	187.00	189.00	2.00	SMI12000489	2099412	15.6	0.7	10.2	7.9	55.7	212
TR12-01A	189.00	191.00	2.00	SMI12000489	2099413	14.3	1.1	7.2	4.4	91.7	273
TR12-01A	191.00	193.00	2.00	SMI12000489	2099414	18.3	1.0	8.6	40.0	40.4	176
TR12-01A	193.00	195.00	2.00	SMI12000489	2099415	17.9	0.7	7.6	98.7	11.9	365
TR12-01A	195.00	197.00	2.00	SMI12000489	2099416	13.1	0.8	8.1	83.0	9.6	127
TR12-01A	197.00	199.00	2.00	SMI12000489	2099417	7.4	0.5	6.3	64.6	7.0	161
TR12-01A	199.00	201.00	2.00	SMI12000489	2099418	8.1	0.6	11.4	43.9	8.5	168
TR12-01A	201.00	203.00	2.00	SMI12000489	2099419	8.1	0.4	7.7	18.2	27.5	158
TR12-01A	203.00	205.00	2.00	SMI12000489	2099421	7.4	0.9	8.4	18.9	126.6	590
TR12-01A	205.00	207.00	2.00	SMI12000489	2099422	5.4	0.6	6.7	11.2	75.2	156
TR12-01A	207.00	209.00	2.00	SMI12000489	2099424	6.7	0.8	11.0	27.9	59.3	259
TR12-01A	209.00	211.00	2.00	SMI12000489	2099425	4.0	0.8	6.9	8.4	29.0	56
TR12-01A	211.00	213.00	2.00	SMI12000489	2099426	2.1	0.8	3.7	8.2	39.0	108
TR12-01A	213.00	215.00	2.00	SMI12000489	2099427	0.3	0.3	2.2	4.7	4.1	59

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-01A	215.00	217.00	2.00	SMI12000489	2099428	4.7	0.4	2.1	10.7	11.9	56
TR12-01A	217.00	219.00	2.00	SMI12000489	2099429	7.7	0.5	2.7	28.3	18.0	74
TR12-01A	219.00	221.00	2.00	SMI12000489	2099430	7.8	0.5	3.0	32.0	29.5	69
TR12-01A	221.00	223.00	2.00	SMI12000489	2099431	9.3	0.6	2.9	28.8	32.2	59
TR12-01A	223.00	225.00	2.00	SMI12000489	2099432	3.2	0.3	2.5	21.9	17.1	51
TR12-01A	225.00	227.00	2.00	SMI12000489	2099433	5.7	0.3	2.5	15.7	13.0	54
TR12-01A	227.00	229.00	2.00	SMI12000489	2099434	3.3	0.3	5.2	3.2	23.5	56
TR12-01A	229.00	231.00	2.00	SMI12000489	2099435	2.9	0.2	3.8	13.4	19.8	59
TR12-01A	231.00	233.00	2.00	SMI12000489	2099436	3.1	0.6	4.7	26.5	17.8	72
TR12-01A	233.00	235.00	2.00	SMI12000489	2099437	1.8	0.3	1.9	27.2	15.2	93
TR12-01A	235.00	237.00	2.00	SMI12000489	2099438	2.0	0.2	2.6	38.4	10.3	120
TR12-01A	237.00	239.00	2.00	SMI12000489	2099439	0.3	0.3	7.4	25.0	42.5	107
TR12-01A	239.00	241.00	2.00	SMI12000489	2099440	4.9	0.5	4.9	6.1	71.0	130
TR12-01A	241.00	243.00	2.00	SMI12000489	2099441	6.8	0.8	2.8	40.6	72.2	155
TR12-01A	243.00	245.00	2.00	SMI12000489	2099442	15.0	5.1	4.0	7.4	1362.4	2236
TR12-01A	245.00	247.00	2.00	SMI12000489	2099443	63.4	5.1	1.5	105.6	272.5	452
TR12-01A	247.00	249.00	2.00	SMI12000489	2099444	12.0	1.2	2.5	9.8	144.7	278
TR12-01A	249.00	251.00	2.00	SMI12000489	2099445	10.3	2.9	10.2	11.1	147.0	374
TR12-01A	251.00	253.00	2.00	SMI12000489	2099446	3.2	0.5	3.3	7.4	65.5	140
TR12-01A	253.00	255.00	2.00	SMI12000489	2099447	2.6	0.3	0.8	11.6	26.6	101
TR12-01A	255.00	257.00	2.00	SMI12000489	2099448	5.1	0.2	1.2	10.0	8.5	76
TR12-01A	257.00	259.00	2.00	SMI12000489	2099449	2.4	0.3	2.2	9.3	10.1	65
TR12-01A	259.00	261.00	2.00	SMI12000489	2099450	2.8	0.3	1.3	9.8	18.8	59
TR12-01A	261.00	263.00	2.00	SMI12000489	2099451	2.3	0.4	1.8	17.9	22.1	61
TR12-01A	263.00	265.00	2.00	SMI12000489	2099452	1.5	0.2	1.7	15.3	13.8	53
TR12-01A	265.00	267.00	2.00	SMI12000489	2099453	5.3	0.2	5.1	8.2	10.8	31
TR12-01A	267.00	269.00	2.00	SMI12000489	2099454	5.3	0.1	0.9	13.6	4.4	40
TR12-01A	269.00	271.00	2.00	SMI12000489	2099455	6.6	0.1	24.3	8.3	7.5	40
TR12-01A	271.00	273.00	2.00	SMI12000489	2099456	4.3	0.1	5.4	3.1	3.1	34
TR12-01A	273.00	275.00	2.00	SMI12000489	2099457	4.2	0.3	6.4	4.4	8.7	23
TR12-01A	275.00	277.00	2.00	SMI12000489	2099458	2.7	0.1	2.1	6.9	5.1	26
TR12-01A	277.00	279.00	2.00	SMI12000489	2099459	2.7	0.3	2.9	6.0	8.9	23
TR12-01A	279.00	281.00	2.00	SMI12000489	2099460	6.5	0.2	4.7	6.1	15.3	28
TR12-01A	281.00	283.00	2.00	SMI12000489	2099461	5.0	0.2	4.5	10.7	16.0	31
TR12-01A	283.00	285.00	2.00	SMI12000489	2099462	3.2	0.1	1.1	10.7	7.7	45
TR12-01A	285.00	287.00	2.00	SMI12000489	2099463	5.3	0.3	2.5	21.7	24.8	119
TR12-01A	287.00	289.00	2.00	SMI12000489	2099464	5.7	0.3	1.8	59.8	10.1	68
TR12-01A	289.00	291.00	2.00	SMI12000489	2099465	4.0	0.2	1.1	38.7	11.1	102
TR12-01A	291.00	293.00	2.00	SMI12000489	2099466	5.6	0.3	2.0	77.7	15.0	103
TR12-01A	293.00	295.00	2.00	SMI12000489	2099467	2.8	0.5	4.4	21.1	38.2	134
TR12-01A	295.00	295.66	1.50	SMI12000489	2099468	4.4	0.3	4.8	2.7	9.6	143
TR12-02	57.00	59.00	2.00	SMI12000488	2099469	0.3	0.1	0.3	49.0	4.4	56
TR12-02	59.00	61.00	2.00	SMI12000488	2099470	1.8	0.1	2.3	56.0	5.4	58
TR12-02	61.00	63.00	2.00	SMI12000488	2099471	0.6	0.1	1.4	52.8	5.5	67
TR12-02	63.00	65.00	2.00	SMI12000488	2099472	0.3	0.1	0.3	53.0	8.0	61
TR12-02	65.00	67.00	2.00	SMI12000488	2099473	0.6	0.1	0.5	47.6	5.0	50
TR12-02	67.00	69.00	2.00	SMI12000488	2099474	0.3	0.1	1.2	48.1	4.7	27
TR12-02	69.00	71.00	2.00	SMI12000488	2099475	0.6	0.1	12.2	43.8	8.0	40
TR12-02	71.00	73.00	2.00	SMI12000488	2099476	1.8	0.1	20.3	35.7	7.7	16
TR12-02	73.00	75.00	2.00	SMI12000488	2099477	3.0	0.1	15.5	47.7	7.3	30
TR12-02	75.00	77.00	2.00	SMI12000488	2099478	4.2	0.1	5.2	50.9	6.8	39
TR12-02	77.00	79.00	2.00	SMI12000488	2099479	2.3	0.1	3.1	39.0	5.0	51
TR12-02	79.00	81.00	2.00	SMI12000488	2099480	2.6	0.1	14.0	42.8	5.8	90
TR12-02	81.00	83.00	2.00	SMI12000488	2099481	0.7	0.1	12.3	46.5	6.0	48
TR12-02	83.00	85.00	2.00	SMI12000488	2099482	38.3	0.1	30.3	43.2	7.6	62
TR12-02	85.00	87.00	2.00	SMI12000488	2099483	0.3	0.1	4.2	41.2	5.2	54
TR12-02	87.00	89.00	2.00	SMI12000488	2099484	0.8	0.1	2.4	53.6	6.2	64
TR12-02	89.00	91.00	2.00	SMI12000488	2099485	0.6	0.1	1.1	41.2	5.8	76
TR12-02	91.00	93.00	2.00	SMI12000488	2099486	0.6	0.2	4.4	53.2	5.9	86
TR12-02	93.00	95.00	2.00	SMI12000488	2099487	0.3	0.1	2.2	47.2	6.7	59
TR12-02	95.00	97.00	2.00	SMI12000488	2099488	1.3	0.1	7.4	44.7	5.1	39
TR12-02	97.00	99.00	2.00	SMI12000488	2099489	0.3	0.1	1.1	58.3	5.7	51
TR12-02	99.00	101.00	2.00	SMI12000488	2099490	0.7	0.1	0.3	53.1	5.4	53
TR12-02	101.00	103.00	2.00	SMI12000488	2099491	0.3	0.1	0.3	41.0	5.3	50
TR12-02	103.00	105.00	2.00	SMI12000488	2099492	0.3	0.1	2.4	53.3	6.1	58
TR12-02	105.00	107.00	2.00	SMI12000488	2099493	0.3	0.1	0.3	39.0	6.6	65
TR12-02	107.00	109.00	2.00	SMI12000488	2099494	0.3	0.1	0.3	45.7	6.4	77
TR12-02	109.00	111.00	2.00	SMI12000488	2099495	0.3	0.1	0.3	57.1	5.4	85
TR12-02	111.00	113.00	2.00	SMI12000488	2099496	0.3	0.1	0.3	45.4	6.3	84
TR12-02	113.00	115.00	2.00	SMI12000488	2099497	0.5	0.1	0.3	44.8	5.5	77
TR12-02	115.00	117.00	2.00	SMI12000488	2099498	0.3	0.1	0.3	45.4	5.5	99
TR12-02	117.00	119.00	2.00	SMI12000488	2099499	0.8	0.1	0.8	41.5	5.9	67
TR12-02	119.00	121.00	2.00	SMI12000488	2099500	2.6	0.2	1.2	49.8	7.6	76

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Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-02	121.00	123.00	2.00	SMI12000488	2099501	5.1	0.1	0.6	191.4	6.1	76
TR12-02	123.00	125.00	2.00	SMI12000488	2099502	0.3	0.1	0.7	42.2	9.0	55
TR12-02	125.00	127.00	2.00	SMI12000488	2099503	0.3	0.1	0.3	48.3	5.6	46
TR12-02	127.00	129.00	2.00	SMI12000488	2099504	0.3	0.1	0.3	49.5	6.6	55
TR12-02	129.00	131.00	2.00	SMI12000488	2099505	0.3	0.1	0.3	42.3	6.5	50
TR12-02	131.00	133.00	2.00	SMI12000488	2099506	0.3	0.1	1.1	44.7	6.5	64
TR12-02	133.00	135.00	2.00	SMI12000488	2099507	0.3	0.1	0.9	37.5	7.6	47
TR12-02	135.00	137.00	2.00	SMI12000488	2099508	0.3	0.1	1.6	32.5	8.1	59
TR12-02	137.00	139.00	2.00	SMI12000488	2099509	0.3	0.1	1.3	39.8	4.2	59
TR12-02	139.00	141.00	2.00	SMI12000488	2099510	0.7	0.1	2.4	40.5	6.0	45
TR12-02	141.00	143.00	2.00	SMI12000488	2099511	0.3	0.1	1.1	39.9	5.9	53
TR12-02	143.00	145.00	2.00	SMI12000488	2099512	1.4	0.1	0.9	38.5	5.4	59
TR12-02	145.00	147.00	2.00	SMI12000488	2099513	1.0	0.2	22.2	24.1	8.5	59
TR12-02	147.00	149.00	2.00	SMI12000488	2099514	21.5	0.5	42.2	7.9	20.1	55
TR12-02	149.00	151.00	2.00	SMI12000488	2099515	3.0	0.7	36.8	6.4	23.9	63
TR12-02	151.00	153.00	2.00	SMI12000488	2099516	7.0	1.2	52.1	5.3	24.0	35
TR12-02	153.00	155.00	2.00	SMI12000488	2099517	5.0	0.9	51.5	8.1	44.9	96
TR12-02	155.00	157.00	2.00	SMI12000488	2099518	1.8	0.3	23.9	12.0	15.2	56
TR12-02	157.00	159.00	2.00	SMI12000488	2099519	1.1	0.2	20.9	11.5	13.5	71
TR12-02	159.00	161.00	2.00	SMI12000488	2099520	3.8	0.1	19.6	7.2	14.2	60
TR12-02	161.00	163.00	2.00	SMI12000488	2099521	2.3	0.2	26.3	9.6	15.4	50
TR12-02	163.00	165.00	2.00	SMI12000488	2099522	4.3	0.5	51.6	8.7	18.2	64
TR12-02	165.00	167.00	2.00	SMI12000488	2099523	6.7	0.6	76.9	9.5	26.3	88
TR12-02	167.00	169.00	2.00	SMI12000488	2099524	6.6	1.2	86.1	13.0	78.0	203
TR12-02	169.00	171.00	2.00	SMI12000488	2099525	15.1	4.4	40.9	16.1	267.3	356
TR12-02	171.00	173.00	2.00	SMI12000488	2099526	11.8	5.8	44.9	47.2	116.2	158
TR12-02	173.00	175.00	2.00	SMI12000488	2099527	6.8	3.3	43.8	31.2	112.8	1119
TR12-02	175.00	177.00	2.00	SMI12000488	2099528	8.2	1.5	33.5	30.2	86.0	947
TR12-02	177.00	179.00	2.00	SMI12000488	2099529	0.3	0.8	24.8	47.3	68.3	313
TR12-02	179.00	181.00	2.00	SMI12000488	2099530	14.0	1.9	41.9	24.5	14.8	148
TR12-02	181.00	183.00	2.00	SMI12000488	2099531	21.4	3.2	54.4	42.8	33.8	108
TR12-02	183.00	185.00	2.00	SMI12000488	2099532	10.2	1.4	19.6	52.8	20.9	95
TR12-02	185.00	187.00	2.00	SMI12000488	2099533	7.8	0.6	12.0	18.5	42.4	353
TR12-02	187.00	189.00	2.00	SMI12000488	2099534	1.5	0.4	24.7	1.9	22.9	86
TR12-02	189.00	191.00	2.00	SMI12000488	2099535	2.6	0.5	39.8	19.6	46.6	334
TR12-02	191.00	193.00	2.00	SMI12000488	2099536	1.2	1.3	31.7	41.5	158.2	518
TR12-02	193.00	195.00	2.00	SMI12000488	2099537	5.0	1.2	53.3	2.2	50.6	98
TR12-02	195.00	197.00	2.00	SMI12000488	2099538	2.4	0.5	21.6	7.0	75.0	279
TR12-02	197.00	199.00	2.00	SMI12000488	2099539	1.6	0.2	8.9	8.5	33.0	105
TR12-02	199.00	201.00	2.00	SMI12000488	2099540	2.9	0.1	5.8	7.9	8.2	55
TR12-02	201.00	203.00	2.00	SMI12000488	2099541	3.6	0.2	4.3	11.7	11.3	60
TR12-02	203.00	205.00	2.00	SMI12000488	2099542	0.8	0.1	2.5	11.5	31.0	90
TR12-02	205.00	207.00	2.00	SMI12000488	2099544	4.0	0.3	7.6	5.8	42.4	72
TR12-02	207.00	209.00	2.00	SMI12000488	2099545	0.6	0.1	2.4	5.6	18.0	83
TR12-02	209.00	211.00	2.00	SMI12000488	2099546	1.7	0.2	10.2	2.6	46.5	95
TR12-02	211.00	213.00	2.00	SMI12000488	2099547	1.9	0.2	4.8	4.5	22.1	89
TR12-02	213.00	215.00	2.00	SMI12000488	2099548	2.8	0.5	11.3	3.3	50.3	100
TR12-02	215.00	217.00	2.00	SMI12000488	2099549	0.6	0.1	5.6	1.3	9.3	59
TR12-02	217.00	219.00	2.00	SMI12000488	2099550	3.3	0.2	14.5	9.8	22.6	94
TR12-02	219.00	221.00	2.00	SMI12000488	2099551	4.8	0.3	17.0	13.6	28.6	62
TR12-02	221.00	223.00	2.00	SMI12000488	2099552	3.7	0.3	12.6	11.9	36.7	54
TR12-02	223.00	225.00	2.00	SMI12000488	2099553	2.2	0.2	12.7	5.7	17.1	48
TR12-02	225.00	227.00	2.00	SMI12000488	2099554	3.1	0.2	8.8	9.8	33.8	90
TR12-02	227.00	229.00	2.00	SMI12000488	2099555	9.1	0.5	9.4	9.1	95.2	145
TR12-02	229.00	231.00	2.00	SMI12000488	2099556	5.2	0.3	12.7	8.8	35.4	94
TR12-02	231.00	233.00	2.00	SMI12000488	2099557	4.2	0.3	14.8	8.4	29.0	51
TR12-02	233.00	235.00	2.00	SMI12000488	2099558	3.7	0.2	15.9	8.7	10.6	23
TR12-02	235.00	237.00	2.00	SMI12000488	2099559	6.3	0.2	20.6	8.9	20.9	31
TR12-02	237.00	239.00	2.00	SMI12000488	2099560	4.4	0.2	17.5	49.3	11.3	23
TR12-02	239.00	241.00	2.00	SMI12000488	2099561	8.3	0.5	3.4	65.0	10.4	32
TR12-02	241.00	243.00	2.00	SMI12000488	2099562	4.7	0.4	5.5	3.2	10.8	57
TR12-02	243.00	245.00	2.00	SMI12000488	2099563	15.4	0.8	15.9	7.4	11.5	63
TR12-02	245.00	247.00	2.00	SMI12000488	2099565	6.2	0.4	8.6	14.3	10.1	58
TR12-02	247.00	249.00	2.00	SMI12000488	2099566	6.5	0.3	3.5	14.3	13.5	26
TR12-02	249.00	251.00	2.00	SMI12000488	2099567	3.2	0.4	6.1	3.1	11.0	45
TR12-02	251.00	253.00	2.00	SMI12000488	2099568	2.2	0.1	11.9	2.4	9.1	39
TR12-02	253.00	255.00	2.00	SMI12000488	2099569	1.2	0.2	6.1	5.2	7.5	43
TR12-02	255.00	257.00	2.00	SMI12000488	2099570	1.6	0.5	7.7	3.8	15.1	63
TR12-02	257.00	259.00	2.00	SMI12000488	2099571	0.6	0.5	14.3	10.2	22.6	48
TR12-02	259.00	261.00	2.00	SMI12000488	2099572	2.0	0.4	7.2	3.1	11.6	33
TR12-02	261.00	263.00	2.00	SMI12000488	2099574	1.6	0.3	6.0	10.9	6.6	27
TR12-02	263.00	265.00	2.00	SMI12000488	2099575	1.2	0.3	5.2	6.5	3.3	26
TR12-02	265.00	267.00	2.00	SMI12000488	2099576	2.5	0.4	6.3	2.3	6.7	23

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Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-02	267.00	269.00	2.00	SMI12000488	2099577	0.3	0.3	5.1	6.8	4.5	22
TR12-02	269.00	271.00	2.00	SMI12000488	2099578	1.3	0.3	4.9	8.2	4.7	24
TR12-02	271.00	273.00	2.00	SMI12000488	2099580	1.2	0.2	4.4	5.9	4.8	27
TR12-02	273.00	275.00	2.00	SMI12000488	2099581	0.3	0.2	5.2	7.6	3.9	32
TR12-02	275.00	277.00	2.00	SMI12000488	2099582	0.8	0.4	5.2	11.5	5.8	24
TR12-02	277.00	279.00	2.00	SMI12000488	2099583	3.5	0.7	13.6	1.9	5.2	22
TR12-02	279.00	281.00	2.00	SMI12000488	2099584	3.4	0.5	14.9	1.6	5.8	23
TR12-02	281.00	283.00	2.00	SMI12000488	2099585	8.7	0.9	7.9	2.3	46.5	37
TR12-02	283.00	285.00	2.00	SMI12000488	2099586	3.7	0.2	6.2	2.7	10.2	23
TR12-02	285.00	287.00	2.00	SMI12000488	2099587	2.4	0.1	6.1	1.6	6.3	23
TR12-02	287.00	289.00	2.00	SMI12000488	2099588	0.3	0.1	3.8	1.4	4.2	26
TR12-02	289.00	291.00	2.00	SMI12000488	2099589	0.3	0.1	4.6	13.4	3.3	30
TR12-02	291.00	293.00	2.00	SMI12000488	2099590	0.3	0.1	5.2	18.4	3.6	60
TR12-02	293.00	295.00	2.00	SMI12000488	2099591	1.5	0.1	10.2	11.2	4.5	42
TR12-02	295.00	297.00	2.00	SMI12000488	2099592	1.7	0.1	13.2	16.4	6.0	37
TR12-02	297.00	299.00	2.00	SMI12000488	2099593	2.2	0.1	14.2	8.0	3.6	32
TR12-02	299.00	301.00	2.00	SMI12000488	2099594	0.9	0.1	8.3	5.7	3.8	34
TR12-02	301.00	301.75	0.75	SMI12000488	2099595	4.1	0.2	11.9	4.8	6.1	32
TR12-03	63.00	65.00	2.00	SMI12000495	2099596	0.8	0.1	0.9	49.5	5.2	80
TR12-03	65.00	67.00	2.00	SMI12000495	2099597	0.3	0.1	0.3	54.4	4.2	51
TR12-03	67.00	69.00	2.00	SMI12000495	2099598	0.3	0.1	1.0	47.5	4.3	59
TR12-03	69.00	71.00	2.00	SMI12000495	2099599	0.3	0.1	1.9	45.8	5.2	50
TR12-03	71.00	73.00	2.00	SMI12000495	2099600	0.3	0.1	10.1	53.1	6.0	58
TR12-03	73.00	75.00	2.00	SMI12000495	2099601	0.3	0.1	16.3	53.6	9.2	50
TR12-03	75.00	77.00	2.00	SMI12000495	2099602	0.3	0.1	3.2	45.3	7.0	51
TR12-03	77.00	79.00	2.00	SMI12000495	2099603	0.3	0.1	2.9	51.2	8.6	54
TR12-03	79.00	81.00	2.00	SMI12000495	2099604	0.3	0.1	4.7	45.9	7.7	55
TR12-03	81.00	83.00	2.00	SMI12000495	2099605	0.3	0.1	2.3	47.9	6.3	69
TR12-03	83.00	85.00	2.00	SMI12000495	2099606	2.8	3.6	1.0	43.4	6.0	34
TR12-03	85.00	87.00	2.00	SMI12000495	2099607	0.3	0.5	1.3	50.8	4.5	61
TR12-03	87.00	89.00	2.00	SMI12000495	2099608	0.3	0.7	32.4	32.6	7.3	68
TR12-03	89.00	91.00	2.00	SMI12000495	2099609	0.3	0.7	57.9	46.5	7.4	60
TR12-03	91.00	93.00	2.00	SMI12000495	2099610	1.3	0.1	1.8	48.3	4.9	72
TR12-03	93.00	95.00	2.00	SMI12000495	2099611	2.4	0.3	1.3	45.0	5.3	63
TR12-03	95.00	97.00	2.00	SMI12000495	2099612	0.3	0.1	2.7	53.1	6.2	51
TR12-03	97.00	99.00	2.00	SMI12000495	2099613	4.5	0.4	22.4	13.7	26.3	95
TR12-03	99.00	101.00	2.00	SMI12000495	2099614	2.4	0.1	6.4	9.5	13.6	54
TR12-03	101.00	103.00	2.00	SMI12000495	2099615	2.1	0.2	14.8	6.6	22.1	70
TR12-03	103.00	105.00	2.00	SMI12000495	2099616	0.3	0.1	1.0	6.4	14.8	73
TR12-03	105.00	107.00	2.00	SMI12000495	2099617	0.3	0.1	3.6	9.1	10.0	60
TR12-03	107.00	109.00	2.00	SMI12000495	2099618	0.3	0.2	5.9	10.0	25.9	89
TR12-03	109.00	111.00	2.00	SMI12000495	2099619	0.3	0.2	6.7	8.1	11.1	64
TR12-03	111.00	113.00	2.00	SMI12000495	2099620	8.0	1.1	78.0	8.6	35.6	120
TR12-03	113.00	115.00	2.00	SMI12000495	2099621	0.6	0.3	29.6	9.0	14.9	76
TR12-03	115.00	117.00	2.00	SMI12000495	2099622	5.3	0.5	46.3	8.8	28.2	79
TR12-03	117.00	119.00	2.00	SMI12000495	2099623	3.0	0.7	40.9	7.5	25.1	85
TR12-03	119.00	121.00	2.00	SMI12000495	2099624	8.9	1.5	93.7	12.6	63.7	180
TR12-03	121.00	123.00	2.00	SMI12000495	2099625	0.3	0.2	18.2	8.8	11.8	54
TR12-03	123.00	125.00	2.00	SMI12000495	2099626	10.4	1.2	59.9	18.5	126.1	237
TR12-03	125.00	127.00	2.00	SMI12000495	2099627	7.6	0.8	26.5	33.1	102.2	249
TR12-03	127.00	129.00	2.00	SMI12000495	2099628	1.4	0.6	19.4	14.8	35.2	74
TR12-03	129.00	131.00	2.00	SMI12000495	2099629	12.3	0.8	33.5	35.5	98.6	252
TR12-03	131.00	133.00	2.00	SMI12000495	2099630	9.7	0.6	36.8	24.0	59.0	162
TR12-03	133.00	135.00	2.00	SMI12000495	2099631	10.7	0.8	32.4	17.2	73.3	124
TR12-03	135.00	137.00	2.00	SMI12000495	2099632	21.3	0.8	36.0	22.1	60.9	106
TR12-03	137.00	139.00	2.00	SMI12000495	2099633	18.1	0.7	89.9	27.8	38.8	123
TR12-03	139.00	141.00	2.00	SMI12000495	2099634	19.8	0.7	98.8	22.0	78.7	149
TR12-03	141.00	143.00	2.00	SMI12000495	2099635	19.8	0.7	46.2	27.5	51.6	133
TR12-03	143.00	145.00	2.00	SMI12000495	2099636	15.8	0.7	53.9	36.8	92.2	326
TR12-03	145.00	147.00	2.00	SMI12000495	2099637	14.3	0.5	39.1	21.7	29.1	65
TR12-03	147.00	149.00	2.00	SMI12000495	2099638	24.1	0.7	76.1	26.5	28.1	55
TR12-03	149.00	151.00	2.00	SMI12000495	2099639	10.6	0.4	28.2	9.8	15.0	67
TR12-03	151.00	153.00	2.00	SMI12000495	2099640	13.0	0.5	38.8	20.9	18.4	80
TR12-03	153.00	155.00	2.00	SMI12000495	2099641	13.4	0.5	47.8	15.2	33.4	153
TR12-03	155.00	157.00	2.00	SMI12000495	2099642	7.9	0.4	40.5	16.8	14.0	51
TR12-03	157.00	159.00	2.00	SMI12000495	2099643	7.5	0.5	47.8	13.7	23.6	48
TR12-03	159.00	161.00	2.00	SMI12000495	2099644	9.0	0.5	40.3	17.4	14.6	45
TR12-03	161.00	163.00	2.00	SMI12000495	2099645	5.6	0.6	61.4	10.5	33.5	89
TR12-03	163.00	165.00	2.00	SMI12000495	2099646	7.7	0.7	114.9	19.3	35.0	80
TR12-03	165.00	167.00	2.00	SMI12000495	2099647	27.7	1.3	58.2	18.9	128.8	285
TR12-03	167.00	169.00	2.00	SMI12000495	2099648	12.6	0.5	35.8	9.9	34.7	85
TR12-03	169.00	171.00	2.00	SMI12000495	2099649	15.7	1.0	10.2	17.9	60.8	129
TR12-03	171.00	173.00	2.00	SMI12000495	2099650	96.6	4.7	11.4	253.8	169.3	297

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-03	173.00	175.00	2.00	SMI12000495	2099651	17.1	2.5	51.3	11.9	227.4	526
TR12-03	175.00	177.00	2.00	SMI12000495	2099652	15.3	1.3	24.0	14.7	225.4	475
TR12-03	177.00	179.00	2.00	SMI12000495	2099653	7.1	0.7	36.6	13.6	86.2	322
TR12-03	179.00	181.00	2.00	SMI12000495	2099654	6.4	0.7	10.1	13.0	82.9	183
TR12-03	181.00	183.00	2.00	SMI12000495	2099655	7.3	0.7	17.9	8.1	77.5	151
TR12-03	183.00	185.00	2.00	SMI12000495	2099657	7.1	0.5	17.6	12.3	38.2	75
TR12-03	185.00	187.00	2.00	SMI12000495	2099659	21.5	0.4	7.4	22.1	12.6	19
TR12-03	187.00	189.00	2.00	SMI12000495	2099660	21.3	0.5	27.8	26.0	27.9	49
TR12-03	189.00	191.00	2.00	SMI12000495	2099661	21.9	0.6	29.6	33.6	23.0	44
TR12-03	191.00	193.00	2.00	SMI12000495	2099663	14.4	0.8	24.8	16.3	29.5	65
TR12-03	193.00	195.00	2.00	SMI12000495	2099664	24.0	0.8	15.7	9.0	23.4	35
TR12-03	195.00	197.00	2.00	SMI12000495	2099665	14.8	0.7	8.3	10.4	39.5	106
TR12-03	197.00	199.00	2.00	SMI12000495	2099666	24.9	1.0	6.1	12.5	54.3	169
TR12-03	199.00	201.00	2.00	SMI12000495	2099667	15.7	0.7	6.3	23.7	27.0	110
TR12-03	201.00	203.00	2.00	SMI12000495	2099668	7.7	0.7	7.5	9.8	59.9	174
TR12-03	203.00	205.00	2.00	SMI12000495	2099669	7.9	0.9	8.9	7.6	61.3	158
TR12-03	205.00	207.00	2.00	SMI12000495	2099670	3.7	0.9	14.5	7.5	37.2	51
TR12-03	207.00	209.00	2.00	SMI12000495	2099672	0.3	0.9	8.3	11.0	57.2	129
TR12-03	209.00	211.00	2.00	SMI12000495	2099673	1.1	0.8	3.4	7.0	58.2	203
TR12-03	211.00	213.00	2.00	SMI12000495	2099674	3.8	0.8	6.2	23.6	51.2	119
TR12-03	213.00	215.00	2.00	SMI12000495	2099675	3.5	0.8	15.5	30.2	38.1	131
TR12-03	215.00	217.00	2.00	SMI12000495	2099676	3.7	0.8	12.6	22.2	52.7	228
TR12-03	217.00	219.00	2.00	SMI12000495	2099677	3.7	1.1	8.3	32.7	70.3	182
TR12-03	219.00	221.00	2.00	SMI12000495	2099678	2.1	0.8	3.8	60.6	36.7	67
TR12-03	221.00	223.00	2.00	SMI12000495	2099679	10.7	1.6	21.2	58.8	77.1	146
TR12-03	223.00	225.00	2.00	SMI12000495	2099680	13.2	1.2	23.5	40.0	43.2	224
TR12-03	225.00	227.00	2.00	SMI12000495	2099681	19.7	1.6	9.6	56.9	52.4	187
TR12-03	227.00	229.00	2.00	SMI12000495	2099682	30.2	1.8	19.1	34.2	70.1	415
TR12-03	229.00	231.00	2.00	SMI12000495	2099683	21.3	1.6	15.0	42.7	108.5	468
TR12-03	231.00	233.00	2.00	SMI12000495	2099684	11.8	1.2	4.3	40.3	96.3	222
TR12-03	233.00	235.00	2.00	SMI12000495	2099685	56.7	2.7	21.8	80.3	142.4	279
TR12-03	235.00	237.00	2.00	SMI12000495	2099686	37.6	1.6	38.4	76.4	46.5	151
TR12-03	237.00	239.00	2.00	SMI12000495	2099687	14.8	0.8	9.5	49.3	41.0	121
TR12-03	239.00	241.00	2.00	SMI12000495	2099688	9.7	0.9	8.5	118.8	54.2	210
TR12-03	241.00	243.00	2.00	SMI12000495	2099689	8.2	0.8	9.0	129.3	66.0	234
TR12-03	243.00	245.00	2.00	SMI12000495	2099690	18.4	1.2	7.5	26.9	83.3	189
TR12-03	245.00	247.00	2.00	SMI12000495	2099691	9.9	0.8	10.0	23.1	45.5	104
TR12-03	247.00	249.00	2.00	SMI12000495	2099692	11.4	0.6	9.3	41.2	35.7	72
TR12-03	249.00	249.94	0.94	SMI12000495	2099693	10.7	0.9	23.8	35.1	48.3	97
TR12-04	75.00	77.00	2.00	SMI12000494	2099694	2.1	0.1	1.9	31.3	5.5	61
TR12-04	77.00	79.00	2.00	SMI12000494	2099695	1.3	0.1	0.9	10.8	5.1	55
TR12-04	79.00	81.00	2.00	SMI12000494	2099696	0.3	0.1	3.3	34.3	3.5	58
TR12-04	81.00	83.00	2.00	SMI12000494	2099697	0.8	0.1	3.1	30.3	2.5	54
TR12-04	83.00	85.00	2.00	SMI12000494	2099698	2.0	0.2	4.0	40.8	2.4	47
TR12-04	85.00	87.00	2.00	SMI12000494	2099699	0.3	0.1	3.7	42.3	2.2	60
TR12-04	87.00	89.00	2.00	SMI12000494	2099700	0.3	0.1	4.0	34.8	1.9	46
TR12-04	89.00	91.00	2.00	SMI12000494	2099701	0.6	0.1	7.6	18.9	4.5	50
TR12-04	91.00	93.00	2.00	SMI12000494	2099702	3.2	0.1	7.6	20.6	4.9	56
TR12-04	93.00	95.00	2.00	SMI12000494	2099703	2.1	0.1	3.2	38.3	3.3	52
TR12-04	95.00	97.00	2.00	SMI12000494	2099704	1.1	0.1	1.3	39.6	5.3	56
TR12-04	97.00	99.00	2.00	SMI12000494	2099705	0.3	0.1	1.1	30.1	5.1	55
TR12-04	99.00	101.00	2.00	SMI12000494	2099706	0.3	0.1	4.8	44.2	4.5	56
TR12-04	101.00	103.00	2.00	SMI12000494	2099707	0.7	0.1	1.6	38.2	4.9	60
TR12-04	103.00	105.00	2.00	SMI12000494	2099708	0.3	0.1	3.1	35.7	4.7	72
TR12-04	105.00	107.00	2.00	SMI12000494	2099709	0.3	0.1	3.0	35.5	3.6	56
TR12-04	107.00	109.00	2.00	SMI12000494	2099710	0.3	0.1	1.7	35.9	4.0	61
TR12-04	109.00	111.00	2.00	SMI12000494	2099711	1.2	0.1	1.6	41.5	3.8	59
TR12-04	111.00	113.00	2.00	SMI12000494	2099712	0.3	0.1	1.9	23.6	3.7	56
TR12-04	113.00	115.00	2.00	SMI12000494	2099713	1.3	0.1	3.1	33.4	5.1	61
TR12-04	115.00	117.00	2.00	SMI12000494	2099714	0.3	0.2	2.6	34.1	4.2	67
TR12-04	117.00	119.00	2.00	SMI12000494	2099715	0.3	0.5	3.0	39.1	3.5	62
TR12-04	119.00	121.00	2.00	SMI12000494	2099716	0.3	0.1	2.1	44.5	3.0	54
TR12-04	121.00	123.00	2.00	SMI12000494	2099717	0.3	0.1	2.1	41.0	3.2	53
TR12-04	123.00	125.00	2.00	SMI12000494	2099718	0.3	0.2	3.2	38.3	3.7	55
TR12-04	125.00	127.00	2.00	SMI12000494	2099719	0.3	0.1	3.7	40.3	3.6	57
TR12-04	127.00	129.00	2.00	SMI12000494	2099720	0.3	0.2	1.6	32.3	3.6	49
TR12-04	129.00	131.00	2.00	SMI12000494	2099721	0.3	0.1	2.1	41.9	2.8	42
TR12-04	131.00	133.00	2.00	SMI12000494	2099722	0.3	0.1	1.6	63.8	2.2	36
TR12-04	133.00	135.00	2.00	SMI12000494	2099723	0.3	0.2	1.8	52.2	4.0	61
TR12-04	135.00	137.00	2.00	SMI12000494	2099724	0.3	0.1	0.9	39.6	4.7	55
TR12-04	137.00	139.00	2.00	SMI12000494	2099725	0.3	0.1	1.7	18.4	5.7	54
TR12-04	139.00	141.00	2.00	SMI12000494	2099726	0.3	0.1	1.7	39.8	4.4	57
TR12-04	141.00	143.00	2.00	SMI12000494	2099727	0.3	0.1	3.0	48.1	4.3	61

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-04	143.00	145.00	2.00	SMI12000494	2099728	0.3	0.1	1.5	25.5	4.5	52
TR12-04	145.00	147.00	2.00	SMI12000494	2099729	0.3	0.1	1.8	26.3	4.6	55
TR12-04	147.00	149.00	2.00	SMI12000494	2099730	0.3	0.1	1.1	54.9	3.0	63
TR12-04	149.00	151.00	2.00	SMI12000494	2099731	0.3	0.1	1.9	60.0	3.0	67
TR12-04	151.00	153.00	2.00	SMI12000494	2099732	0.3	0.1	1.9	53.0	2.6	57
TR12-04	153.00	155.00	2.00	SMI12000494	2099733	0.3	0.1	1.8	49.4	2.6	61
TR12-04	155.00	157.00	2.00	SMI12000494	2099734	0.3	0.1	5.0	40.0	4.6	63
TR12-04	157.00	159.00	2.00	SMI12000494	2099735	0.3	0.1	1.8	16.6	5.1	57
TR12-04	159.00	161.00	2.00	SMI12000494	2099736	0.3	0.1	0.9	35.8	1.7	62
TR12-04	161.00	163.00	2.00	SMI12000494	2099737	0.3	0.1	1.5	31.9	1.7	63
TR12-04	163.00	165.00	2.00	SMI12000494	2099738	0.3	0.1	3.2	40.6	2.5	74
TR12-04	165.00	167.00	2.00	SMI12000494	2099739	0.3	0.1	1.4	35.5	8.7	125
TR12-04	167.00	169.00	2.00	SMI12000494	2099740	0.3	0.1	2.4	37.3	9.8	125
TR12-04	169.00	171.00	2.00	SMI12000494	2099741	0.3	0.1	2.1	39.8	8.7	125
TR12-04	171.00	173.00	2.00	SMI12000494	2099743	0.3	0.1	0.3	25.3	5.1	89
TR12-04	173.00	175.00	2.00	SMI12000494	2099745	0.3	0.1	0.3	11.3	5.2	79
TR12-04	175.00	177.00	2.00	SMI12000494	2099747	0.3	0.1	0.3	22.7	3.7	76
TR12-04	177.00	179.00	2.00	SMI12000494	2099748	1.2	0.1	0.3	17.5	3.2	81
TR12-04	179.00	181.00	2.00	SMI12000494	2099750	0.6	0.1	0.3	18.5	3.8	78
TR12-04	181.00	181.97	0.97	SMI12000494	2099751	1.8	0.1	0.3	27.0	4.7	85
TR12-05	16.00	18.00	2.00	SMI12000507	2099752	1.1	0.1	3.6	16.6	10.2	56
TR12-05	18.00	20.00	2.00	SMI12000507	2099753	2.1	0.1	4.1	24.6	8.1	49
TR12-05	20.00	22.00	2.00	SMI12000507	2099754	3.8	0.1	11.8	25.2	8.1	69
TR12-05	22.00	24.00	2.00	SMI12000507	2099755	4.8	0.2	17.3	16.4	8.2	51
TR12-05	24.00	26.00	2.00	SMI12000507	2099756	7.7	0.4	28.6	14.4	8.3	61
TR12-05	26.00	28.00	2.00	SMI12000507	2099757	9.1	0.4	39.1	10.0	6.3	49
TR12-05	28.00	30.00	2.00	SMI12000507	2099758	11.4	0.4	40.4	13.6	7.4	38
TR12-05	30.00	32.00	2.00	SMI12000507	2099759	18.8	0.7	60.1	12.9	9.0	48
TR12-05	32.00	34.00	2.00	SMI12000507	2099760	38.9	0.6	38.3	14.3	8.1	50
TR12-05	34.00	36.00	2.00	SMI12000507	2099761	21.1	0.6	41.1	14.4	8.6	42
TR12-05	36.00	38.00	2.00	SMI12000507	2099762	654.7	1.0	36.3	11.7	7.1	36
TR12-05	38.00	40.00	2.00	SMI12000507	2099763	12.3	0.4	34.1	12.4	8.9	37
TR12-05	40.00	42.00	2.00	SMI12000507	2099764	48.7	0.4	19.4	12.4	7.6	35
TR12-05	42.00	44.00	2.00	SMI12000507	2099765	42.7	0.5	23.5	10.0	7.3	33
TR12-05	44.00	46.00	2.00	SMI12000507	2099766	16.4	0.3	40.5	11.1	7.6	30
TR12-05	46.00	48.00	2.00	SMI12000507	2099767	16.1	0.4	43.7	14.4	8.9	35
TR12-05	48.00	50.00	2.00	SMI12000507	2099768	16.9	0.4	19.4	12.3	8.4	39
TR12-05	50.00	52.00	2.00	SMI12000507	2099769	223.1	3.4	34.8	11.9	5.9	53
TR12-05	52.00	54.00	2.00	SMI12000507	2099770	66.6	0.7	17.6	11.8	6.5	38
TR12-05	54.00	56.00	2.00	SMI12000507	2099771	17.7	0.4	30.9	13.0	7.9	56
TR12-05	56.00	58.00	2.00	SMI12000507	2099772	11.4	0.2	29.2	12.1	9.4	47
TR12-05	58.00	60.00	2.00	SMI12000507	2099773	10.5	0.4	33.2	12.9	10.0	54
TR12-05	60.00	62.00	2.00	SMI12000507	2099774	12.0	0.5	32.7	14.9	10.8	55
TR12-05	62.00	64.00	2.00	SMI12000507	2099775	13.5	0.3	29.3	13.6	9.9	48
TR12-05	64.00	66.00	2.00	SMI12000507	2099776	10.0	0.5	27.7	14.2	11.1	53
TR12-05	66.00	68.00	2.00	SMI12000507	2099777	7.1	0.3	19.7	17.1	7.3	52
TR12-05	68.00	70.00	2.00	SMI12000507	2099778	7.3	0.3	31.4	14.6	8.9	52
TR12-05	70.00	72.00	2.00	SMI12000507	2099779	6.2	0.4	27.6	13.3	7.1	55
TR12-05	72.00	74.00	2.00	SMI12000507	2099780	40.1	0.9	18.4	12.5	6.1	50
TR12-05	74.00	76.00	2.00	SMI12000507	2099781	39.1	1.1	16.0	13.4	5.9	44
TR12-05	76.00	78.00	2.00	SMI12000507	2099782	8.7	0.7	20.0	14.8	4.5	29
TR12-05	78.00	80.00	2.00	SMI12000507	2099783	21.8	0.6	22.1	12.1	5.1	34
TR12-05	80.00	82.00	2.00	SMI12000507	2099784	243.0	4.9	46.3	9.5	6.8	34
TR12-05	82.00	84.00	2.00	SMI12000507	2099785	485.4	2.7	58.0	11.8	6.5	32
TR12-05	84.00	86.00	2.00	SMI12000507	2099786	1185.5	3.9	126.9	12.0	8.5	41
TR12-05	86.00	87.03	1.03	SMI12000507	2099787	923.1	3.2	31.7	12.5	6.4	38
TR12-05	87.03	88.36	1.33	SMI12000507	2099788	1589.0	5.0	16.1	6.3	3.8	17
TR12-05	88.36	89.89	1.53	SMI12000507	2099790	234.0	2.8	35.7	7.2	5.4	25
TR12-05	89.89	92.00	1.11	SMI12000507	2099791	363.0	2.6	81.1	15.4	10.1	51
TR12-05	92.00	94.00	2.00	SMI12000507	2099793	130.7	1.0	35.4	13.0	8.9	48
TR12-05	94.00	96.00	2.00	SMI12000507	2099794	185.7	0.9	21.7	15.3	9.6	48
TR12-05	96.00	98.00	2.00	SMI12000507	2099795	111.9	0.5	11.4	13.6	7.6	49
TR12-05	98.00	100.00	2.00	SMI12000507	2099796	18.0	0.4	9.4	14.4	6.8	45
TR12-05	100.00	102.00	2.00	SMI12000507	2099797	30.7	0.5	14.3	13.8	7.5	42
TR12-05	102.00	104.00	2.00	SMI12000507	2099798	328.5	0.9	12.8	14.0	7.7	48
TR12-05	104.00	106.00	2.00	SMI12000507	2099799	60.1	0.5	13.9	15.3	7.6	47
TR12-05	106.00	108.00	2.00	SMI12000507	2099800	78.8	0.7	18.8	16.2	8.1	43
TR12-05	108.00	110.00	2.00	SMI12000507	2099801	155.2	1.0	20.4	14.5	7.8	46
TR12-05	110.00	112.00	2.00	SMI12000507	2099802	122.5	1.5	16.9	16.0	8.6	56
TR12-05	112.00	114.00	2.00	SMI12000507	2099803	80.8	3.8	16.2	19.0	7.5	59
TR12-05	114.00	114.62	0.62	SMI12000507	2099804	327.4	6.2	21.5	20.7	9.6	45
TR12-05	114.62	116.64	2.00	SMI12000507	2099805	43.2	0.7	42.8	19.8	6.8	36
TR12-05	116.64	118.64	2.00	SMI12000507	2099806	13.3	0.5	15.6	31.2	6.6	58

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-05	118.64	119.82	1.18	SMI12000507	2099807	30.0	0.7	16.5	31.9	7.2	57
TR12-05	119.82	121.82	2.00	SMI12000507	2099808	280.1	3.2	34.4	20.2	6.5	34
TR12-05	121.82	122.64	0.82	SMI12000507	2099809	35.5	1.0	20.6	30.4	8.0	57
TR12-05	122.64	124.64	2.00	SMI12000507	2099811	10.4	0.7	24.1	27.9	6.7	44
TR12-05	124.64	127.30	2.66	SMI12000507	2099812	11.8	0.6	23.7	28.7	8.1	43
TR12-05	127.30	129.00	1.70	SMI12000507	2099814	10.0	0.6	10.6	38.9	9.6	45
TR12-05	129.00	131.00	2.00	SMI12000507	2099815	9.3	0.7	9.0	42.7	5.5	58
TR12-05	131.00	133.00	2.00	SMI12000507	2099816	4.5	0.6	15.9	46.5	5.3	54
TR12-05	133.00	135.00	2.00	SMI12000507	2099817	4.6	0.6	15.7	38.5	5.5	57
TR12-05	135.00	137.00	2.00	SMI12000507	2099818	6.3	0.7	16.1	35.6	6.2	45
TR12-05	137.00	139.00	2.00	SMI12000507	2099819	9.3	0.7	12.2	36.0	5.4	47
TR12-05	139.00	141.00	2.00	SMI12000507	2099820	10.3	0.7	19.9	38.7	5.6	57
TR12-05	141.00	143.00	2.00	SMI12000507	2099821	3.8	0.6	19.7	41.0	5.2	44
TR12-05	143.00	145.00	2.00	SMI12000507	2099822	38.0	0.7	10.9	33.4	6.5	51
TR12-05	145.00	147.00	2.00	SMI12000507	2099823	6.3	0.4	13.2	30.2	6.7	44
TR12-05	147.00	149.00	2.00	SMI12000507	2099824	28.2	0.5	12.7	32.4	5.5	51
TR12-05	149.00	151.00	2.00	SMI12000507	2099825	198.9	1.1	20.4	30.5	6.8	40
TR12-05	151.00	152.40	1.40	SMI12000507	2099826	6.1	0.5	31.0	36.2	7.3	62
TR12-06	5.00	7.00	2.00	SMI12000513	2099827	7.3	0.6	27.3	15.1	27.1	199
TR12-06	7.00	9.00	2.00	SMI12000513	2099828	16.7	0.7	26.8	16.4	30.8	264
TR12-06	9.00	11.00	2.00	SMI12000513	2099829	722.2	1.2	29.7	18.7	10.6	71
TR12-06	11.00	13.00	2.00	SMI12000513	2099830	69.6	0.8	58.2	19.3	8.7	68
TR12-06	13.00	15.00	2.00	SMI12000513	2099831	126.0	1.5	94.4	43.0	4.4	75
TR12-06	15.00	17.00	2.00	SMI12000513	2099832	98.1	1.9	65.0	26.8	5.5	65
TR12-06	17.00	19.00	2.00	SMI12000513	2099833	43.7	1.7	69.2	29.0	5.7	97
TR12-06	19.00	21.00	2.00	SMI12000513	2099834	116.6	2.3	99.6	37.0	4.4	63
TR12-06	21.00	23.00	2.00	SMI12000513	2099835	216.1	2.0	84.8	21.5	6.8	55
TR12-06	23.00	25.00	2.00	SMI12000513	2099836	55.7	1.1	54.0	15.0	8.3	56
TR12-06	25.00	27.00	2.00	SMI12000513	2099837	51.3	1.0	36.7	14.5	8.5	61
TR12-06	27.00	29.00	2.00	SMI12000513	2099838	31.8	0.8	34.0	13.2	8.4	55
TR12-06	29.00	31.00	2.00	SMI12000513	2099839	40.7	0.7	42.7	14.4	10.3	63
TR12-06	31.00	33.00	2.00	SMI12000513	2099840	17.7	0.5	27.8	13.6	10.2	75
TR12-06	33.00	35.00	2.00	SMI12000513	2099841	18.7	0.5	19.9	12.9	9.9	61
TR12-06	35.00	37.00	2.00	SMI12000513	2099842	14.9	0.7	24.5	14.3	11.8	69
TR12-06	37.00	39.00	2.00	SMI12000513	2099843	13.4	0.5	20.8	12.0	5.6	44
TR12-06	39.00	41.00	2.00	SMI12000513	2099844	26.2	1.0	57.7	12.1	6.9	47
TR12-06	41.00	43.00	2.00	SMI12000513	2099845	35.1	0.7	31.2	11.4	6.8	50
TR12-06	43.00	45.00	2.00	SMI12000513	2099846	54.8	0.6	30.4	13.4	6.4	39
TR12-06	45.00	47.00	2.00	SMI12000513	2099847	169.3	0.7	36.6	12.3	7.6	48
TR12-06	47.00	49.00	2.00	SMI12000513	2099848	608.7	1.3	47.0	14.1	9.2	55
TR12-06	49.00	51.00	2.00	SMI12000513	2099849	40.8	0.2	16.4	19.1	7.5	51
TR12-06	51.00	53.00	2.00	SMI12000513	2099850	25.4	0.2	25.5	24.9	7.4	43
TR12-06	53.00	55.00	2.00	SMI12000513	2099851	19.3	0.5	23.6	25.8	7.2	71
TR12-06	55.00	57.00	2.00	SMI12000513	2099852	23.2	0.7	29.8	37.2	9.0	49
TR12-06	57.00	59.00	2.00	SMI12000513	2099853	15.3	0.3	15.6	36.4	6.1	44
TR12-06	59.00	61.00	2.00	SMI12000513	2099854	8.7	0.2	6.4	49.7	4.9	63
TR12-06	61.00	63.00	2.00	SMI12000513	2099855	2.8	0.1	3.6	47.3	3.9	47
TR12-06	63.00	65.00	2.00	SMI12000513	2099856	3.5	0.1	3.8	33.4	6.0	48
TR12-06	65.00	67.00	2.00	SMI12000513	2099857	14.7	0.3	14.5	33.4	6.3	50
TR12-06	67.00	69.00	2.00	SMI12000513	2099858	24.2	0.8	33.3	34.6	7.4	40
TR12-06	69.00	71.00	2.00	SMI12000513	2099859	6.5	0.2	16.2	29.7	6.7	48
TR12-06	71.00	73.00	2.00	SMI12000513	2099860	149.0	0.5	15.7	25.9	8.7	42
TR12-06	73.00	75.00	2.00	SMI12000513	2099861	15.5	0.5	22.0	35.9	7.0	47
TR12-06	75.00	77.00	2.00	SMI12000513	2099862	22.7	0.6	20.9	28.9	6.6	39
TR12-06	77.00	79.00	2.00	SMI12000513	2099863	71.4	1.1	21.1	31.8	6.9	34
TR12-06	79.00	81.00	2.00	SMI12000513	2099865	41.9	2.1	46.3	33.3	5.8	32
TR12-06	81.00	83.00	2.00	SMI12000513	2099866	243.0	2.6	77.2	36.1	7.1	38
TR12-06	83.00	85.00	2.00	SMI12000513	2099867	154.1	2.4	16.9	38.7	5.5	49
TR12-06	85.00	85.70	0.70	SMI12000513	2099868	65.2	1.3	11.3	41.8	5.3	33
TR12-06	85.70	87.70	2.00	SMI12000513	2099870	29.2	2.3	8.3	40.4	3.6	43
TR12-06	87.70	89.94	2.24	SMI12000513	2099871	83.0	23.0	12.7	52.6	4.7	39
TR12-06	89.94	90.50	0.56	SMI12000513	2099873	12.0	1.5	32.4	55.5	4.4	48
TR12-06	90.50	92.00	1.50	SMI12000513	2099874	49.4	4.1	25.1	49.6	6.8	42
TR12-06	92.00	94.00	2.00	SMI12000513	2099876	14.3	1.1	16.0	46.5	7.8	40
TR12-06	94.00	96.00	2.00	SMI12000513	2099877	18.2	1.3	22.8	45.1	7.5	39
TR12-06	96.00	98.00	2.00	SMI12000513	2099878	12.1	1.0	19.5	37.5	7.7	32
TR12-06	98.00	100.00	2.00	SMI12000513	2099879	31.7	1.3	29.3	42.9	7.5	34
TR12-06	100.00	102.00	2.00	SMI12000513	2099880	25.6	1.4	17.9	45.1	5.2	38
TR12-06	102.00	104.00	2.00	SMI12000513	2099881	10.3	1.0	10.3	43.2	5.6	36
TR12-06	104.00	106.00	2.00	SMI12000513	2099882	27.3	1.3	26.9	44.8	6.1	33
TR12-06	106.00	108.00	2.00	SMI12000513	2099883	32.4	1.6	28.8	40.2	7.0	43
TR12-06	108.00	110.00	2.00	SMI12000513	2099884	17.8	1.1	20.1	35.7	5.6	29
TR12-06	110.00	112.00	2.00	SMI12000513	2099885	34.0	1.3	22.9	36.9	7.2	27

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-06	112.00	114.00	2.00	SMI12000513	2099886	21.3	0.8	12.2	18.8	5.8	31
TR12-06	114.00	116.00	2.00	SMI12000513	2099887	11.5	0.9	12.1	38.9	6.0	38
TR12-06	116.00	118.00	2.00	SMI12000513	2099888	12.9	1.3	15.8	39.7	5.7	32
TR12-06	118.00	120.00	2.00	SMI12000513	2099889	23.9	1.2	19.3	36.6	6.4	34
TR12-06	120.00	122.00	2.00	SMI12000513	2099890	12.9	1.0	16.3	36.8	5.5	41
TR12-06	122.00	124.00	2.00	SMI12000513	2099891	4.8	0.6	12.5	39.3	8.3	39
TR12-06	124.00	126.00	2.00	SMI12000513	2099892	1.9	0.3	2.9	9.9	6.2	33
TR12-06	126.00	128.00	2.00	SMI12000513	2099893	6.4	0.2	1.8	8.5	6.1	29
TR12-06	128.00	130.00	2.00	SMI12000513	2099894	5.8	0.5	1.8	6.9	6.9	31
TR12-06	130.00	132.00	2.00	SMI12000513	2099895	13.9	2.8	6.1	16.3	7.5	36
TR12-06	132.00	134.00	2.00	SMI12000513	2099896	13.1	0.7	10.7	42.0	8.5	42
TR12-06	134.00	136.00	2.00	SMI12000513	2099897	12.7	0.8	17.8	39.2	6.8	41
TR12-06	136.00	138.00	2.00	SMI12000513	2099898	9.8	0.7	17.9	65.4	7.4	67
TR12-06	138.00	140.00	2.00	SMI12000513	2099899	3.3	0.5	12.7	55.8	4.5	58
TR12-06	140.00	142.00	2.00	SMI12000513	2099900	2.6	0.2	9.8	54.7	1.8	61
TR12-06	142.00	144.00	2.00	SMI12000513	2099901	5.4	0.6	8.7	53.5	1.7	60
TR12-06	144.00	146.00	2.00	SMI12000513	2099902	1.0	0.1	0.3	29.6	1.5	54
TR12-06	146.00	148.00	2.00	SMI12000513	2099903	9.2	0.6	11.0	43.8	1.7	56
TR12-06	148.00	150.00	2.00	SMI12000513	2099904	10.5	0.3	3.2	100.6	1.7	56
TR12-06	150.00	152.00	2.00	SMI12000513	2099905	1.5	0.1	1.1	47.7	1.5	57
TR12-06	152.00	152.40	0.40	SMI12000513	2099906	2.4	0.1	1.8	45.0	1.6	58
TR12-08	12.26	14.00	1.74	SMI12000514	2099907	307.6	4.9	7.3	2.5	16.8	23
TR12-08	14.00	16.00	2.00	SMI12000514	2099908	50.4	0.4	6.6	2.4	28.4	34
TR12-08	16.00	18.00	2.00	SMI12000514	2099909	46.7	0.6	10.9	3.7	26.3	43
TR12-08	18.00	20.00	2.00	SMI12000514	2099910	77.2	1.6	46.9	4.8	14.2	52
TR12-08	20.00	22.00	2.00	SMI12000514	2099911	63.0	1.4	32.8	4.8	10.0	62
TR12-08	22.00	24.00	2.00	SMI12000514	2099912	136.5	1.4	49.5	6.1	10.3	38
TR12-08	24.00	26.00	2.00	SMI12000514	2099913	77.2	0.9	40.2	2.4	8.1	52
TR12-08	26.00	28.00	2.00	SMI12000514	2099915	122.4	1.0	37.5	2.8	17.8	41
TR12-08	28.00	30.00	2.00	SMI12000514	2099917	61.0	0.7	28.7	3.3	7.8	55
TR12-08	30.00	32.00	2.00	SMI12000514	2099918	45.2	0.8	38.6	1.9	8.2	83
TR12-08	32.00	34.00	2.00	SMI12000514	2099919	115.9	0.8	43.4	2.4	9.4	101
TR12-08	34.00	36.00	2.00	SMI12000514	2099920	104.6	1.0	48.8	2.3	9.3	83
TR12-08	36.00	38.00	2.00	SMI12000514	2099921	38.1	0.8	62.8	2.4	10.1	97
TR12-08	38.00	40.00	2.00	SMI12000514	2099922	48.6	0.6	34.3	1.7	8.3	74
TR12-08	40.00	42.00	2.00	SMI12000514	2099923	34.1	0.5	23.9	1.5	7.4	65
TR12-08	42.00	44.00	2.00	SMI12000514	2099925	157.8	0.5	18.2	2.1	9.5	123
TR12-08	44.00	46.00	2.00	SMI12000514	2099926	16.7	0.3	15.0	1.7	9.1	92
TR12-08	46.00	48.00	2.00	SMI12000514	2099927	3.9	0.2	12.2	1.2	9.0	68
TR12-08	48.00	50.00	2.00	SMI12000514	2099928	5.1	0.2	5.8	1.0	7.1	98
TR12-08	50.00	52.00	2.00	SMI12000514	2099929	2.7	0.1	7.1	1.7	6.2	107
TR12-08	52.00	54.00	2.00	SMI12000514	2099930	1.6	0.1	5.3	0.9	6.0	71
TR12-08	54.00	56.00	2.00	SMI12000514	2099932	0.3	0.1	3.9	0.9	4.9	79
TR12-08	56.00	58.00	2.00	SMI12000514	2099933	4.3	0.2	11.9	1.3	9.0	135
TR12-08	58.00	60.00	2.00	SMI12000514	2099934	3.5	0.2	11.8	1.2	6.7	132
TR12-08	60.00	62.00	2.00	SMI12000514	2099935	4.6	0.4	20.2	1.1	7.3	128
TR12-08	62.00	64.00	2.00	SMI12000514	2099936	1.6	0.2	11.0	1.0	11.4	102
TR12-08	64.00	66.00	2.00	SMI12000514	2099937	4.7	0.1	5.3	1.3	6.0	78
TR12-08	66.00	68.00	2.00	SMI12000514	2099938	22.1	0.1	6.7	1.5	9.5	82
TR12-08	68.00	70.00	2.00	SMI12000514	2099939	0.9	0.1	4.8	1.7	12.5	72
TR12-08	70.00	72.00	2.00	SMI12000514	2099940	4.4	0.1	2.7	1.6	7.0	51
TR12-08	72.00	74.00	2.00	SMI12000514	2099941	1.4	0.1	2.7	1.9	12.6	50
TR12-08	74.00	76.00	2.00	SMI12000514	2099942	1.4	0.1	3.3	5.2	10.3	59
TR12-08	76.00	78.00	2.00	SMI12000514	2099943	1.7	0.5	9.2	6.2	12.6	165
TR12-08	78.00	80.00	2.00	SMI12000514	2099944	0.3	0.2	6.0	3.2	8.6	101
TR12-08	80.00	82.00	2.00	SMI12000514	2099945	1.4	0.2	5.8	2.0	8.0	82
TR12-08	82.00	84.00	2.00	SMI12000514	2099946	0.3	0.1	6.3	1.7	8.9	102
TR12-08	84.00	86.00	2.00	SMI12000514	2099947	0.5	0.2	8.2	2.6	9.0	80
TR12-08	94.77	96.77	2.00	SMI12000514	2099948	0.7	0.1	6.3	0.5	6.0	28
TR12-08	106.68	108.68	2.00	SMI12000514	2099949	3.0	0.5	10.5	11.0	32.2	39
TR12-08	118.37	120.37	2.00	SMI12000514	2099950	1.2	0.1	1.2	1.5	11.9	59
TR12-08	120.37	122.37	2.00	SMI12000514	2099951	0.3	0.1	1.6	1.2	14.0	63
TR12-09	18.29	21.34	3.05	SMI12000520	2099952	43.8	1.5	58.1	5.7	38.7	89
TR12-09	21.34	23.34	2.00	SMI12000520	2099953	27.0	0.8	36.3	2.9	35.6	129
TR12-09	23.34	25.34	2.00	SMI12000520	2099954	18.9	0.7	25.7	12.6	21.9	122
TR12-09	25.34	27.34	2.00	SMI12000520	2099955	279.3	0.9	18.3	4.8	10.0	41
TR12-09	27.34	30.48	3.14	SMI12000520	2099956	34.3	0.6	21.3	12.7	12.4	61
TR12-09	30.48	33.00	2.52	SMI12000520	2099957	22.4	0.3	13.2	7.4	12.4	71
TR12-09	42.00	44.00	2.00	SMI12000520	2099958	78.3	1.0	35.4	8.1	13.5	85
TR12-09	44.00	46.00	2.00	SMI12000520	2099959	62.1	1.4	45.9	7.7	14.7	59
TR12-09	46.00	48.00	2.00	SMI12000520	2099961	398.9	1.6	54.0	5.5	12.6	74
TR12-09	48.00	50.00	2.00	SMI12000520	2099962	513.3	2.3	71.7	4.0	14.2	84
TR12-09	50.00	52.00	2.00	SMI12000520	2099964	494.3	5.2	75.2	4.7	11.2	79

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-09	52.00	54.00	2.00	SMI12000520	2099966	303.9	2.3	38.8	5.7	11.6	72
TR12-09	54.00	56.00	2.00	SMI12000520	2099967	296.2	4.2	44.8	7.3	13.2	78
TR12-09	56.00	58.00	2.00	SMI12000520	2099968	77.8	1.1	32.4	5.7	12.8	64
TR12-09	58.00	60.00	2.00	SMI12000520	2099970	43.4	0.4	12.9	9.1	13.2	49
TR12-09	60.00	62.00	2.00	SMI12000520	2099971	78.7	35.7	19.1	128.5	14.2	87
TR12-09	62.00	64.00	2.00	SMI12000520	2099972	47.8	3.6	40.9	23.4	16.7	63
TR12-09	64.00	66.00	2.00	SMI12000520	2099973	21.5	0.5	20.3	2.8	17.7	115
TR12-09	66.00	68.00	2.00	SMI12000520	2099974	20.0	0.9	65.6	16.6	32.7	125
TR12-09	68.00	70.00	2.00	SMI12000520	2099975	35.5	0.5	26.7	6.0	10.8	68
TR12-09	70.00	72.00	2.00	SMI12000520	2099976	16.3	0.6	20.6	3.1	14.8	82
TR12-09	72.00	74.00	2.00	SMI12000520	2099977	81.8	0.8	21.3	4.0	15.6	92
TR12-09	74.00	76.00	2.00	SMI12000520	2099978	23.5	1.2	24.4	5.0	14.0	83
TR12-09	76.00	78.00	2.00	SMI12000520	2099979	28.7	0.8	38.6	3.6	20.8	90
TR12-09	78.00	80.00	2.00	SMI12000520	2099980	276.7	0.9	42.0	3.0	13.4	102
TR12-09	80.00	82.00	2.00	SMI12000520	2099981	74.4	1.0	54.8	5.8	18.3	110
TR12-09	82.00	84.00	2.00	SMI12000520	2099982	125.7	1.4	72.6	4.9	51.2	99
TR12-09	84.00	86.00	2.00	SMI12000520	2099983	93.5	1.6	116.8	6.9	33.2	99
TR12-09	86.00	88.00	2.00	SMI12000520	2099984	79.2	1.4	150.5	7.7	28.2	143
TR12-09	88.00	90.00	2.00	SMI12000520	2099985	123.9	2.2	195.9	10.3	29.1	155
TR12-09	90.00	92.00	2.00	SMI12000520	2099986	69.6	0.9	88.9	9.7	13.5	69
TR12-09	92.00	94.00	2.00	SMI12000520	2099987	44.9	1.2	74.8	7.4	16.3	94
TR12-09	94.00	96.00	2.00	SMI12000520	2099988	211.5	1.1	98.5	13.5	14.2	107
TR12-09	96.00	98.00	2.00	SMI12000520	2099989	52.9	0.6	51.1	9.1	12.4	112
TR12-09	98.00	100.00	2.00	SMI12000520	2099990	215.5	1.3	60.8	39.1	14.8	111
TR12-09	100.00	102.00	2.00	SMI12000520	2099991	54.2	0.5	42.8	6.9	16.5	114
TR12-09	102.00	104.00	2.00	SMI12000520	2099992	66.6	0.5	28.4	8.9	23.5	57
TR12-09	104.00	106.00	2.00	SMI12000520	2099993	59.7	0.9	71.8	14.0	18.5	117
TR12-09	106.00	108.00	2.00	SMI12000520	2099994	12.7	0.4	38.7	57.5	5.2	96
TR12-09	112.96	114.60	1.64	SMI12000520	2099995	4.7	0.1	2.0	43.3	3.8	51
TR12-09	114.60	116.60	2.00	SMI12000520	2099996	0.3	0.1	4.5	66.1	4.5	53
TR12-09	116.60	118.60	2.00	SMI12000520	2099997	0.3	0.1	5.2	76.5	3.1	56
TR12-10	18.29	20.00	1.71	SMI12000527	2099998	40.4	1.7	43.9	14.0	5.4	45
TR12-10	20.00	22.00	2.00	SMI12000527	2099999	226.2	10.9	96.8	14.8	7.0	50
TR12-10	22.00	24.00	2.00	SMI12000527	2100000	638.4	2.0	60.3	15.3	6.4	48
TR12-10	24.00	26.00	2.00	SMI12000527	2100001	49.3	0.8	43.1	21.6	6.3	41
TR12-10	26.00	28.00	2.00	SMI12000527	2100002	44.9	0.4	17.4	21.5	6.6	41
TR12-10	28.00	30.00	2.00	SMI12000527	2100003	10.2	0.4	5.6	28.3	6.3	45
TR12-10	30.00	32.00	2.00	SMI12000527	2100004	0.9	0.2	5.9	34.2	7.3	44
TR12-10	32.00	34.00	2.00	SMI12000527	2100005	3.6	0.3	9.8	29.2	5.0	48
TR12-10	34.00	36.00	2.00	SMI12000527	2100006	99.7	1.4	22.6	11.2	5.8	52
TR12-10	36.00	38.00	2.00	SMI12000527	2100007	198.5	8.2	42.0	15.8	5.6	59
TR12-10	38.00	40.00	2.00	SMI12000527	2100009	276.8	6.1	19.9	18.8	5.5	66
TR12-10	40.00	42.00	2.00	SMI12000527	2100011	47.7	1.0	28.7	16.6	6.8	71
TR12-10	42.00	44.00	2.00	SMI12000527	2100012	78.8	1.3	28.4	20.6	6.5	64
TR12-10	44.00	46.00	2.00	SMI12000527	2100013	59.0	1.7	40.8	16.3	7.5	81
TR12-10	46.00	48.00	2.00	SMI12000527	2100014	92.5	2.3	47.1	21.8	6.8	64
TR12-10	48.00	50.00	2.00	SMI12000527	2100015	43.1	2.6	27.3	22.1	5.6	61
TR12-10	50.00	52.00	2.00	SMI12000527	2100016	38.2	1.1	35.9	20.7	6.9	88
TR12-10	52.00	54.00	2.00	SMI12000527	2100017	23.0	1.1	31.7	20.5	7.3	67
TR12-10	54.00	56.00	2.00	SMI12000527	2100018	99.6	2.3	31.5	22.1	6.5	54
TR12-10	56.00	58.00	2.00	SMI12000527	2100019	116.4	1.9	28.9	21.1	6.4	58
TR12-10	58.00	60.00	2.00	SMI12000527	2100020	1052.6	3.6	25.0	18.6	6.5	98
TR12-10	60.00	62.00	2.00	SMI12000527	2100021	105.4	1.6	36.3	28.3	5.0	65
TR12-10	62.00	64.00	2.00	SMI12000527	2100022	75.5	2.5	56.1	47.3	3.5	52
TR12-10	64.00	66.00	2.00	SMI12000527	2100023	80.2	3.1	59.0	52.1	3.2	51
TR12-10	66.00	68.00	2.00	SMI12000527	2100024	33.0	1.5	46.9	40.3	4.7	43
TR12-10	68.00	70.00	2.00	SMI12000527	2100025	62.0	1.9	84.2	28.3	3.0	33
TR12-10	70.00	72.00	2.00	SMI12000527	2100026	74.9	1.7	148.0	57.8	3.0	52
TR12-10	72.00	74.00	2.00	SMI12000527	2100027	48.8	1.5	119.7	51.7	2.5	44
TR12-10	74.00	76.00	2.00	SMI12000527	2100028	38.4	1.3	76.5	39.8	2.1	47
TR12-10	76.00	78.00	2.00	SMI12000527	2100029	124.1	1.3	59.3	37.2	4.2	40
TR12-10	78.00	80.00	2.00	SMI12000527	2100030	159.5	1.7	38.1	33.3	6.8	39
TR12-10	80.00	82.00	2.00	SMI12000527	2100031	133.8	2.5	43.0	24.5	8.0	45
TR12-10	82.00	84.00	2.00	SMI12000527	2100032	223.6	1.4	36.5	29.4	8.4	42
TR12-10	84.00	85.39	1.39	SMI12000527	2100033	48.1	1.4	44.0	17.7	4.6	41
TR12-10	85.39	87.39	2.00	SMI12000527	2100035	23.1	0.8	37.3	7.1	24.4	142
TR12-10	87.39	89.39	2.00	SMI12000527	2100036	21.4	1.4	39.7	13.5	3.7	34
TR12-10	89.39	91.00	1.61	SMI12000527	2100037	11.9	0.4	16.9	7.5	11.3	45
TR12-10	91.00	93.00	2.00	SMI12000527	2100039	7.5	0.8	24.1	12.3	7.3	28
TR12-10	93.00	95.00	2.00	SMI12000527	2100040	0.3	0.1	1.0	12.0	7.3	40
TR12-10	95.00	97.00	2.00	SMI12000527	2100041	0.6	0.1	3.4	19.5	7.1	27
TR12-10	97.00	99.00	2.00	SMI12000527	2100042	0.8	0.1	0.9	13.5	7.7	29
TR12-10	99.00	101.00	2.00	SMI12000527	2100043	1.1	0.1	1.3	16.0	8.0	24

Trout Drilling 2012 - Assays

Hole_ID	from_m	to_m	length_m	Certificate	Sample#	Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
TR12-10	101.00	103.00	2.00	SMI12000527	2100044	0.3	0.1	1.0	7.1	5.9	33
TR12-10	103.00	105.00	2.00	SMI12000527	2100045	0.3	0.1	1.3	12.0	12.1	28
TR12-10	105.00	107.00	2.00	SMI12000527	2100046	0.3	0.1	9.4	25.5	8.0	31
TR12-10	107.00	109.00	2.00	SMI12000527	2100047	0.3	0.1	6.0	17.7	5.7	23
TR12-10	109.00	111.00	2.00	SMI12000527	2100048	0.3	0.1	3.1	19.5	6.6	20
TR12-10	111.00	113.00	2.00	SMI12000527	2100049	0.9	0.1	4.3	8.5	10.4	37
TR12-10	113.00	115.00	2.00	SMI12000527	2100050	0.3	0.1	0.3	22.2	16.2	105
TR12-10	115.00	117.00	2.00	SMI12000527	2100051	0.3	0.1	0.3	0.7	13.1	189
TR12-10	117.00	119.00	2.00	SMI12000527	2100052	3.0	0.1	0.3	2.0	6.0	182
TR12-10	119.00	121.00	2.00	SMI12000527	2100053	2.6	0.1	0.3	1.2	6.1	138
TR12-10	131.06	133.06	2.00	SMI12000527	2100054	1.5	0.2	2.2	22.7	41.6	323
TR12-10	140.21	142.21	2.00	SMI12000527	2100055	2.1	0.2	1.5	18.7	89.2	131
TR12-10	144.00	146.00	2.00	SMI12000527	2100056	2.6	0.2	5.2	22.1	225.1	205



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client:

Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp

Receiving Lab: Canada-Smithers

Received: October 17, 2012

Report Date: November 09, 2012

Page: 1 of 6

CERTIFICATE OF ANALYSIS

SMI12000488.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 127

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	123	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX1	127	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client:

Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project:

Trout Property

Report Date:

November 09, 2012

Page:

2 of 6

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000488.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
G1-SMI	Prep Blank	N.A.	<0.1	3.6	2.9	46	<0.1	4.1	4.3	568	1.87	<0.5	1.3	4.8	48	<0.1	<0.1	<0.1	35	0.48
G1-SMI	Prep Blank	N.A.	0.1	4.1	3.1	45	<0.1	3.3	4.0	533	1.79	<0.5	<0.5	5.4	50	<0.1	<0.1	<0.1	33	0.44
2099469	Core Chip	1.80	<0.1	49.0	4.4	56	<0.1	23.2	16.0	424	2.56	<0.5	<0.5	3.8	126	<0.1	<0.1	<0.1	18	1.91
2099470	Core Chip	4.07	0.2	56.0	5.4	58	<0.1	27.9	15.5	431	2.91	2.3	1.8	3.8	125	<0.1	0.1	<0.1	23	2.02
2099471	Core Chip	3.56	0.1	52.8	5.5	67	<0.1	33.4	17.3	436	2.97	1.4	0.6	3.3	143	<0.1	<0.1	<0.1	21	1.98
2099472	Core Chip	3.51	<0.1	53.0	8.0	61	0.1	32.0	17.7	452	2.82	<0.5	<0.5	3.7	183	<0.1	0.1	<0.1	15	1.74
2099473	Core Chip	2.41	<0.1	47.6	5.0	50	<0.1	26.6	11.8	507	2.44	0.5	0.6	4.1	157	<0.1	0.3	<0.1	22	2.12
2099474	Core Chip	3.12	0.1	48.1	4.7	27	<0.1	10.6	5.4	241	2.84	1.2	<0.5	4.1	121	<0.1	1.0	<0.1	28	1.02
2099475	Core Chip	3.69	0.5	43.8	8.0	40	<0.1	31.0	14.5	694	2.75	12.2	0.6	3.4	151	<0.1	1.1	<0.1	44	1.93
2099476	Core Chip	3.33	0.6	35.7	7.7	16	<0.1	21.7	5.7	408	2.29	20.3	1.8	3.8	132	<0.1	1.4	<0.1	51	1.29
2099477	Core Chip	2.44	0.6	47.7	7.3	30	<0.1	23.8	8.8	540	2.71	15.5	3.0	3.4	129	<0.1	1.5	<0.1	52	1.13
2099478	Core Chip	3.70	0.7	50.9	6.8	39	<0.1	25.5	10.8	519	3.07	5.2	4.2	3.6	117	<0.1	1.7	<0.1	59	0.90
2099479	Core Chip	3.97	0.3	39.0	5.0	51	<0.1	28.2	15.5	577	2.92	3.1	2.3	2.6	116	<0.1	1.0	<0.1	45	0.83
2099480	Core Chip	3.73	0.2	42.8	5.8	90	<0.1	40.0	22.8	771	3.57	14.0	2.6	3.3	169	<0.1	0.8	<0.1	44	1.85
2099481	Core Chip	4.07	0.1	46.5	6.0	48	<0.1	19.3	12.9	321	3.85	12.3	0.7	3.6	155	<0.1	2.1	<0.1	63	1.50
2099482	Core Chip	4.14	0.2	43.2	7.6	62	0.1	25.6	15.2	321	3.37	30.3	38.3	2.8	170	<0.1	1.6	<0.1	49	1.23
2099483	Core Chip	4.30	0.5	41.2	5.2	54	<0.1	33.4	13.5	200	3.41	4.2	<0.5	3.3	183	<0.1	1.1	<0.1	58	0.95
2099484	Core Chip	4.18	0.5	53.6	6.2	64	<0.1	21.6	11.8	386	2.77	2.4	0.8	3.7	227	<0.1	0.9	<0.1	57	2.57
2099485	Core Chip	4.11	0.6	41.2	5.8	76	<0.1	28.4	19.4	658	3.42	1.1	0.6	3.1	260	<0.1	0.9	<0.1	61	3.28
2099486	Core Chip	3.78	0.7	53.2	5.9	86	0.2	27.7	18.3	289	3.77	4.4	0.6	3.3	228	<0.1	1.4	<0.1	71	1.62
2099487	Core Chip	4.39	0.5	47.2	6.7	59	<0.1	21.8	19.9	896	2.96	2.2	<0.5	2.7	288	0.1	0.8	<0.1	59	4.44
2099488	Core Chip	4.22	0.1	44.7	5.1	39	<0.1	23.0	11.1	805	3.57	7.4	1.3	2.9	313	<0.1	1.2	<0.1	51	4.49
2099489	Core Chip	4.02	0.2	58.3	5.7	51	<0.1	23.0	15.6	876	3.92	1.1	<0.5	3.5	340	<0.1	0.6	<0.1	60	4.33
2099490	Core Chip	3.55	0.1	53.1	5.4	53	0.1	25.2	19.4	1089	3.48	<0.5	0.7	2.8	376	0.1	0.3	0.1	53	5.43
2099491	Core Chip	3.89	<0.1	41.0	5.3	50	<0.1	27.0	22.6	1679	3.19	<0.5	<0.5	2.3	385	0.2	0.2	<0.1	44	6.38
2099492	Core Chip	3.88	0.1	53.3	6.1	58	<0.1	32.7	26.5	828	3.72	2.4	<0.5	3.1	314	0.2	0.5	<0.1	49	3.58
2099493	Core Chip	3.85	<0.1	39.0	6.6	65	<0.1	30.5	26.4	1254	3.53	<0.5	<0.5	2.4	362	0.2	0.2	<0.1	48	6.26
2099494	Core Chip	4.04	<0.1	45.7	6.4	77	<0.1	34.1	28.4	1300	3.86	<0.5	<0.5	2.4	362	0.2	0.2	<0.1	52	4.80
2099495	Core Chip	3.92	0.1	57.1	5.4	85	<0.1	34.7	29.1	815	3.98	<0.5	<0.5	2.8	291	0.1	0.3	<0.1	52	3.07
2099496	Core Chip	3.82	<0.1	45.4	6.3	84	<0.1	38.7	33.8	1688	3.62	<0.5	<0.5	2.2	327	0.2	0.2	<0.1	33	5.46



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Project: Trout Property
Report Date: November 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000488.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	9	9	0.61	225	0.119	<20	0.91	0.061	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5
G1-SMI	Prep Blank	9	8	0.52	206	0.118	<20	0.89	0.066	0.45	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5
2099469	Core Chip	20	17	0.33	359	0.001	<20	1.00	0.019	0.37	0.1	<0.01	3.0	<0.1	<0.05	2	<0.5
2099470	Core Chip	23	22	0.34	599	0.003	<20	1.20	0.031	0.38	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5
2099471	Core Chip	23	25	0.34	410	0.002	<20	0.99	0.024	0.29	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5
2099472	Core Chip	24	15	0.30	1913	0.003	<20	0.68	0.026	0.31	<0.1	<0.01	3.2	<0.1	0.06	2	<0.5
2099473	Core Chip	23	17	0.22	665	0.006	<20	0.68	0.019	0.31	0.2	<0.01	3.3	<0.1	<0.05	2	<0.5
2099474	Core Chip	23	29	0.14	122	0.056	<20	0.43	0.018	0.30	1.4	<0.01	2.8	<0.1	<0.05	1	<0.5
2099475	Core Chip	25	35	0.17	641	0.022	<20	0.59	0.021	0.37	0.6	0.05	3.0	0.1	0.11	2	<0.5
2099476	Core Chip	26	39	0.10	59	0.027	<20	0.61	0.020	0.42	0.8	0.06	2.6	0.1	0.18	2	<0.5
2099477	Core Chip	25	46	0.12	50	0.026	<20	0.54	0.021	0.35	0.5	0.03	2.8	0.1	0.13	2	<0.5
2099478	Core Chip	26	60	0.14	61	0.029	<20	0.62	0.022	0.37	0.3	0.02	2.9	0.1	0.06	2	<0.5
2099479	Core Chip	18	39	0.16	70	0.019	<20	0.60	0.022	0.30	0.2	0.02	3.2	0.1	<0.05	2	<0.5
2099480	Core Chip	22	29	0.23	52	0.015	<20	0.66	0.028	0.31	0.2	0.02	4.5	0.1	0.08	3	<0.5
2099481	Core Chip	23	32	0.14	61	0.091	<20	0.50	0.028	0.31	3.3	0.03	3.7	<0.1	0.08	2	<0.5
2099482	Core Chip	22	31	0.19	78	0.036	<20	0.67	0.033	0.32	0.6	0.08	3.3	0.2	0.25	3	<0.5
2099483	Core Chip	21	35	0.22	65	0.027	<20	0.80	0.042	0.34	0.6	<0.01	2.7	<0.1	<0.05	3	<0.5
2099484	Core Chip	22	33	0.15	69	0.026	<20	0.61	0.044	0.35	0.2	<0.01	2.7	<0.1	<0.05	2	<0.5
2099485	Core Chip	22	37	0.20	336	0.022	<20	0.75	0.047	0.37	0.2	<0.01	3.1	<0.1	<0.05	2	<0.5
2099486	Core Chip	23	41	0.18	505	0.029	<20	0.71	0.050	0.38	0.4	0.02	2.8	0.1	0.05	2	<0.5
2099487	Core Chip	21	33	0.14	844	0.022	<20	0.57	0.041	0.35	0.4	<0.01	3.4	<0.1	<0.05	2	<0.5
2099488	Core Chip	20	18	0.16	110	0.063	<20	0.62	0.046	0.28	2.4	<0.01	4.1	<0.1	<0.05	2	<0.5
2099489	Core Chip	23	32	0.20	131	0.018	<20	0.80	0.073	0.30	0.1	<0.01	4.2	<0.1	<0.05	2	<0.5
2099490	Core Chip	21	34	0.23	205	0.015	<20	0.83	0.074	0.27	<0.1	<0.01	3.8	<0.1	<0.05	2	<0.5
2099491	Core Chip	21	28	0.28	281	0.008	<20	0.98	0.070	0.26	<0.1	<0.01	3.8	<0.1	<0.05	2	<0.5
2099492	Core Chip	22	28	0.32	235	0.009	<20	1.03	0.071	0.26	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5
2099493	Core Chip	21	27	0.30	212	0.006	<20	1.11	0.065	0.28	<0.1	<0.01	3.8	<0.1	<0.05	3	<0.5
2099494	Core Chip	22	31	0.33	160	0.007	<20	1.25	0.074	0.30	<0.1	<0.01	3.8	<0.1	<0.05	3	<0.5
2099495	Core Chip	22	27	0.35	227	0.010	<20	1.17	0.072	0.29	<0.1	<0.01	3.7	<0.1	<0.05	3	<0.5
2099496	Core Chip	22	20	0.35	256	0.005	<20	1.33	0.063	0.28	<0.1	<0.01	4.2	<0.1	<0.05	3	<0.5



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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099497	Core Chip	3.32	0.1	44.8	5.5	77	<0.1	33.9	30.6	1606	3.64	<0.5	0.5	2.5	321	0.2	0.2	<0.1	43	5.57
2099498	Core Chip	4.53	0.1	45.4	5.5	99	<0.1	40.6	39.9	1230	4.42	<0.5	<0.5	2.3	276	0.2	0.1	<0.1	55	3.51
2099499	Core Chip	4.32	0.2	41.5	5.9	67	<0.1	28.0	27.2	1031	3.54	0.8	0.8	2.4	299	0.2	0.2	<0.1	55	3.61
2099500	Core Chip	4.22	0.4	49.8	7.6	76	0.2	34.1	27.9	630	4.12	1.2	2.6	3.4	286	0.2	0.2	<0.1	75	2.36
2099501	Core Chip	3.72	0.3	191.4	6.1	76	<0.1	29.5	26.5	697	3.42	0.6	5.1	2.9	260	0.2	<0.1	<0.1	65	2.65
2099502	Core Chip	4.34	0.4	42.2	9.0	55	<0.1	25.5	21.4	1061	3.18	0.7	<0.5	2.7	307	0.2	0.1	<0.1	70	4.22
2099503	Core Chip	4.79	0.4	48.3	5.6	46	<0.1	23.4	17.0	1194	2.99	<0.5	<0.5	2.5	267	0.1	0.2	<0.1	77	4.38
2099504	Core Chip	4.31	0.5	49.5	6.6	55	<0.1	24.9	20.4	1197	3.34	<0.5	<0.5	2.7	293	<0.1	0.2	<0.1	69	4.02
2099505	Core Chip	4.21	0.4	42.3	6.5	50	<0.1	21.1	18.0	2218	2.98	<0.5	<0.5	2.3	315	0.1	<0.1	<0.1	62	6.23
2099506	Core Chip	4.82	0.4	44.7	6.5	64	<0.1	28.2	23.6	1336	3.33	1.1	<0.5	2.6	341	0.2	<0.1	<0.1	50	5.06
2099507	Core Chip	4.40	0.4	37.5	7.6	47	<0.1	20.0	14.2	849	2.53	0.9	<0.5	3.1	364	<0.1	<0.1	<0.1	58	3.61
2099508	Core Chip	3.93	0.4	32.5	8.1	59	<0.1	24.4	15.3	703	3.70	1.6	<0.5	3.8	346	<0.1	<0.1	0.1	68	2.42
2099509	Core Chip	3.87	<0.1	39.8	4.2	59	0.1	20.4	14.9	998	3.00	1.3	<0.5	3.0	285	<0.1	<0.1	0.2	34	2.58
2099510	Core Chip	3.87	0.1	40.5	6.0	45	0.1	17.3	11.3	936	3.17	2.4	0.7	3.1	288	<0.1	<0.1	0.3	35	2.63
2099511	Core Chip	2.99	<0.1	39.9	5.9	53	<0.1	15.7	13.1	1433	3.08	1.1	<0.5	2.8	298	<0.1	<0.1	0.3	33	3.08
2099512	Core Chip	3.76	<0.1	38.5	5.4	59	<0.1	17.9	13.6	1026	2.92	0.9	1.4	2.6	272	<0.1	<0.1	0.4	27	2.19
2099513	Core Chip	4.23	1.6	24.1	8.5	59	0.2	13.1	11.9	1050	2.73	22.2	1.0	2.6	238	<0.1	<0.1	0.4	16	2.34
2099514	Core Chip	4.57	4.3	7.9	20.1	55	0.5	2.9	8.9	824	2.50	42.2	21.5	1.8	137	0.7	0.2	<0.1	<2	2.51
2099515	Core Chip	4.56	6.7	6.4	23.9	63	0.7	2.2	7.3	1210	2.31	36.8	3.0	1.9	133	0.4	0.2	<0.1	2	2.75
2099516	Core Chip	4.25	13.8	5.3	24.0	35	1.2	2.0	7.0	1495	2.67	52.1	7.0	2.1	134	0.2	0.5	<0.1	<2	3.10
2099517	Core Chip	4.45	6.6	8.1	44.9	96	0.9	2.7	7.8	1480	2.96	51.5	5.0	1.9	179	0.9	0.2	<0.1	4	2.66
2099518	Core Chip	4.69	1.6	12.0	15.2	56	0.3	1.5	7.6	1447	2.85	23.9	1.8	2.0	221	<0.1	0.1	<0.1	6	2.49
2099519	Core Chip	3.72	0.8	11.5	13.5	71	0.2	1.6	6.7	891	2.49	20.9	1.1	2.1	222	<0.1	<0.1	<0.1	9	0.99
2099520	Core Chip	4.01	0.3	7.2	14.2	60	0.1	1.7	7.2	1178	2.53	19.6	3.8	1.8	238	0.1	<0.1	<0.1	11	1.36
2099521	Core Chip	2.68	0.9	9.6	15.4	50	0.2	1.9	7.7	1333	2.56	26.3	2.3	1.9	220	<0.1	<0.1	0.1	10	1.65
2099522	Core Chip	3.69	21.3	8.7	18.2	64	0.5	2.5	8.3	554	2.09	51.6	4.3	2.1	139	0.3	0.2	0.3	6	0.68
2099523	Core Chip	4.34	6.8	9.5	26.3	88	0.6	2.5	7.6	575	2.81	76.9	6.7	2.0	112	0.4	0.2	<0.1	3	0.44
2099524	Core Chip	4.49	10.7	13.0	78.0	203	1.2	6.4	9.2	1045	3.25	86.1	6.6	1.8	101	1.9	0.3	0.5	7	0.89
2099525	Core Chip	3.30	1.0	16.1	267.3	356	4.4	28.8	10.2	1399	2.25	40.9	15.1	2.0	66	3.6	0.1	1.0	10	1.73
2099526	Core Chip	3.35	0.4	47.2	116.2	158	5.8	37.2	12.6	1101	2.52	44.9	11.8	1.6	48	1.3	0.2	2.3	12	1.21



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099497	Core Chip	23	23	0.32	951	0.007	<20	1.17	0.059	0.29	<0.1	<0.01	4.4	<0.1	<0.05	3	<0.5
2099498	Core Chip	23	26	0.40	186	0.008	<20	1.32	0.057	0.29	0.1	<0.01	6.4	<0.1	<0.05	4	<0.5
2099499	Core Chip	23	25	0.28	394	0.011	<20	0.95	0.058	0.29	0.2	<0.01	4.8	<0.1	<0.05	3	<0.5
2099500	Core Chip	25	35	0.34	247	0.008	<20	1.06	0.072	0.28	0.1	<0.01	4.7	<0.1	<0.05	3	<0.5
2099501	Core Chip	23	30	0.31	148	0.005	<20	0.94	0.064	0.27	<0.1	<0.01	5.0	<0.1	<0.05	3	<0.5
2099502	Core Chip	22	33	0.27	265	0.008	<20	0.93	0.062	0.25	<0.1	<0.01	4.1	<0.1	<0.05	3	<0.5
2099503	Core Chip	22	39	0.24	266	0.010	<20	0.92	0.059	0.26	<0.1	<0.01	4.2	<0.1	<0.05	3	<0.5
2099504	Core Chip	23	35	0.29	170	0.008	<20	0.99	0.067	0.24	<0.1	<0.01	3.9	<0.1	<0.05	3	<0.5
2099505	Core Chip	20	29	0.29	145	0.005	<20	0.99	0.068	0.23	<0.1	<0.01	3.1	<0.1	<0.05	2	<0.5
2099506	Core Chip	21	29	0.39	99	0.003	<20	1.30	0.075	0.21	<0.1	<0.01	3.9	<0.1	<0.05	3	<0.5
2099507	Core Chip	23	28	0.32	141	0.003	<20	1.08	0.097	0.21	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5
2099508	Core Chip	21	29	0.40	142	0.005	<20	1.22	0.104	0.19	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5
2099509	Core Chip	17	14	0.41	113	0.002	<20	1.23	0.087	0.15	<0.1	<0.01	3.7	<0.1	<0.05	3	<0.5
2099510	Core Chip	20	16	0.30	110	0.004	<20	0.96	0.090	0.15	<0.1	<0.01	3.2	<0.1	<0.05	3	<0.5
2099511	Core Chip	17	14	0.36	284	0.001	<20	1.18	0.095	0.15	<0.1	<0.01	4.1	<0.1	<0.05	3	<0.5
2099512	Core Chip	17	16	0.43	208	<0.001	<20	1.55	0.088	0.15	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5
2099513	Core Chip	19	11	0.38	221	<0.001	<20	1.26	0.073	0.15	<0.1	0.03	2.5	0.1	0.52	3	<0.5
2099514	Core Chip	11	<1	0.06	80	<0.001	<20	0.28	0.035	0.16	<0.1	0.06	0.6	0.3	2.69	<1	<0.5
2099515	Core Chip	13	<1	0.08	71	<0.001	<20	0.33	0.034	0.16	<0.1	0.03	0.7	0.2	2.42	<1	<0.5
2099516	Core Chip	15	<1	0.07	62	<0.001	<20	0.27	0.028	0.15	<0.1	0.02	0.9	0.2	2.93	<1	<0.5
2099517	Core Chip	15	<1	0.24	82	<0.001	<20	0.66	0.042	0.15	<0.1	0.02	0.8	0.2	2.67	1	<0.5
2099518	Core Chip	12	<1	0.33	89	<0.001	<20	0.88	0.052	0.16	<0.1	0.05	0.9	0.1	1.93	2	<0.5
2099519	Core Chip	14	1	0.26	110	<0.001	<20	0.93	0.073	0.16	<0.1	0.17	0.9	0.2	0.91	2	<0.5
2099520	Core Chip	13	<1	0.27	105	<0.001	<20	0.92	0.075	0.15	0.2	0.03	1.5	0.7	0.96	2	<0.5
2099521	Core Chip	13	1	0.24	104	<0.001	<20	0.84	0.067	0.16	<0.1	0.01	1.4	1.5	1.10	2	<0.5
2099522	Core Chip	14	1	0.14	92	<0.001	<20	0.65	0.047	0.16	<0.1	0.02	0.6	0.8	1.35	1	<0.5
2099523	Core Chip	13	1	0.18	82	<0.001	<20	0.57	0.040	0.17	<0.1	0.03	0.7	0.2	2.52	1	<0.5
2099524	Core Chip	13	2	0.25	73	<0.001	<20	0.60	0.034	0.17	<0.1	0.04	1.1	0.2	2.89	1	<0.5
2099525	Core Chip	11	8	0.36	60	<0.001	<20	0.60	0.015	0.17	<0.1	0.02	1.4	0.1	1.73	1	<0.5
2099526	Core Chip	9	11	0.30	55	<0.001	<20	0.56	0.013	0.16	<0.1	0.02	1.1	<0.1	2.08	1	<0.5



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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099527	Core Chip	3.96	1.4	31.2	112.8	1119	3.3	33.7	10.0	1316	2.39	43.8	6.8	2.1	66	8.2	0.2	0.8	9	1.30
2099528	Core Chip	3.97	1.8	30.2	86.0	947	1.5	32.6	9.7	1719	2.44	33.5	8.2	2.8	72	7.1	0.2	0.4	12	1.04
2099529	Core Chip	4.00	1.6	47.3	68.3	313	0.8	68.2	18.2	1389	3.00	24.8	<0.5	6.1	45	2.8	0.4	0.3	26	0.32
2099530	Core Chip	4.37	1.3	24.5	14.8	148	1.9	36.1	10.5	874	2.44	41.9	14.0	2.6	35	1.3	0.3	0.6	10	0.60
2099531	Core Chip	2.76	2.9	42.8	33.8	108	3.2	37.7	14.1	119	2.43	54.4	21.4	2.6	31	1.1	0.4	2.9	4	0.15
2099532	Core Chip	4.53	13.0	52.8	20.9	95	1.4	5.9	9.0	86	2.41	19.6	10.2	1.5	72	0.7	0.2	2.5	4	0.30
2099533	Core Chip	4.60	3.5	18.5	42.4	353	0.6	2.8	6.9	189	1.66	12.0	7.8	1.7	90	4.9	<0.1	1.1	5	0.30
2099534	Core Chip	4.47	0.8	1.9	22.9	86	0.4	2.6	7.0	850	2.41	24.7	1.5	1.7	160	0.8	<0.1	0.7	7	1.24
2099535	Core Chip	2.22	7.7	19.6	46.6	334	0.5	5.0	5.9	478	2.52	39.8	2.6	2.1	81	3.4	0.5	0.2	10	0.34
2099536	Core Chip	4.52	1.2	41.5	158.2	518	1.3	2.2	6.1	688	2.29	31.7	1.2	1.8	95	6.6	<0.1	0.9	9	0.91
2099537	Core Chip	3.85	0.5	2.2	50.6	98	1.2	2.6	8.3	434	2.54	53.3	5.0	1.9	73	1.1	<0.1	1.0	10	0.44
2099538	Core Chip	5.03	0.3	7.0	75.0	279	0.5	2.8	6.9	872	2.58	21.6	2.4	2.0	105	3.3	<0.1	0.2	10	1.19
2099539	Core Chip	4.58	0.4	8.5	33.0	105	0.2	4.0	9.5	881	2.41	8.9	1.6	2.3	88	1.5	<0.1	<0.1	17	0.49
2099540	Core Chip	4.55	0.3	7.9	8.2	55	0.1	2.5	8.7	826	2.55	5.8	2.9	2.3	90	<0.1	<0.1	0.1	16	0.42
2099541	Core Chip	4.55	0.4	11.7	11.3	60	0.2	2.1	5.9	895	2.00	4.3	3.6	2.2	123	0.1	0.1	0.1	12	1.43
2099542	Core Chip	4.95	0.1	11.5	31.0	90	0.1	2.5	8.2	1378	2.28	2.5	0.8	2.2	134	0.4	<0.1	<0.1	14	2.15
2099543 Dup of 2099542	CORE DUP	N.A.	0.2	17.6	30.9	87	0.1	2.6	9.7	1324	2.21	2.5	0.6	2.1	135	0.4	<0.1	0.1	14	1.99
2099544	Core Chip	4.52	0.4	5.8	42.4	72	0.3	2.3	7.1	767	1.98	7.6	4.0	1.7	93	0.5	<0.1	0.3	8	1.26
2099545	Core Chip	4.96	0.2	5.6	18.0	83	<0.1	2.0	6.1	1257	1.89	2.4	0.6	1.9	132	0.8	<0.1	<0.1	9	2.16
2099546	Core Chip	4.88	0.2	2.6	46.5	95	0.2	1.9	6.9	1414	2.18	10.2	1.7	1.9	189	0.9	<0.1	0.1	8	2.98
2099547	Core Chip	3.99	0.2	4.5	22.1	89	0.2	1.7	6.3	1303	2.18	4.8	1.9	1.8	158	0.5	<0.1	0.1	9	2.72
2099548	Core Chip	5.18	0.5	3.3	50.3	100	0.5	2.3	7.1	848	2.21	11.3	2.8	1.9	132	1.4	0.1	0.4	10	2.34
2099549	Core Chip	4.36	0.2	1.3	9.3	59	0.1	2.2	5.6	589	1.83	5.6	0.6	1.7	101	0.1	<0.1	0.1	8	1.49
2099550	Core Chip	4.74	0.8	9.8	22.6	94	0.2	3.3	8.3	543	2.28	14.5	3.3	1.9	107	1.0	0.1	0.2	9	1.36
2099551	Core Chip	4.47	1.4	13.6	28.6	62	0.3	3.7	7.7	793	2.33	17.0	4.8	1.8	133	0.4	0.1	0.2	12	2.22
2099552	Core Chip	4.73	1.1	11.9	36.7	54	0.3	3.9	9.0	691	2.34	12.6	3.7	1.8	108	0.4	0.2	0.2	15	1.49
2099553	Core Chip	4.47	0.8	5.7	17.1	48	0.2	2.7	8.2	771	2.46	12.7	2.2	1.9	140	0.2	<0.1	0.2	12	2.01
2099554	Core Chip	3.98	1.0	9.8	33.8	90	0.2	2.8	8.9	1106	2.52	8.8	3.1	2.0	128	0.8	0.2	0.1	21	1.82
2099555	Core Chip	4.55	0.9	9.1	95.2	145	0.5	2.0	7.3	1569	2.13	9.4	9.1	1.3	187	1.7	<0.1	0.7	7	4.94
2099556	Core Chip	4.23	0.5	8.8	35.4	94	0.3	1.7	7.3	878	2.23	12.7	5.2	1.7	133	0.8	<0.1	0.4	11	1.93



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Report Date: November 09, 2012

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099527	Core Chip	13	9	0.30	57	<0.001	<20	0.53	0.016	0.16	<0.1	0.07	1.5	0.2	2.02	<1	<0.5
2099528	Core Chip	16	10	0.30	62	<0.001	<20	0.75	0.017	0.17	<0.1	0.04	1.8	0.2	1.28	2	<0.5
2099529	Core Chip	22	30	0.35	65	<0.001	<20	1.16	0.019	0.14	<0.1	0.01	2.4	0.1	0.70	3	1.4
2099530	Core Chip	14	11	0.17	40	<0.001	<20	0.44	0.011	0.12	<0.1	<0.01	1.1	<0.1	1.56	1	1.1
2099531	Core Chip	10	4	0.07	53	<0.001	<20	0.30	0.015	0.16	<0.1	<0.01	0.6	0.2	2.50	<1	1.1
2099532	Core Chip	8	2	0.09	73	<0.001	<20	0.36	0.028	0.24	<0.1	0.03	0.6	0.1	2.51	<1	<0.5
2099533	Core Chip	11	3	0.16	87	<0.001	<20	0.55	0.032	0.26	<0.1	0.04	0.7	0.1	1.19	1	<0.5
2099534	Core Chip	12	2	0.28	108	<0.001	<20	0.64	0.031	0.25	<0.1	0.03	0.9	0.1	1.72	1	<0.5
2099535	Core Chip	12	2	0.37	77	<0.001	<20	0.89	0.035	0.22	<0.1	0.07	0.9	0.5	1.04	2	<0.5
2099536	Core Chip	13	2	0.39	76	<0.001	<20	0.82	0.031	0.27	<0.1	0.12	0.9	0.1	1.07	2	<0.5
2099537	Core Chip	14	2	0.36	112	<0.001	<20	0.75	0.027	0.27	<0.1	0.15	0.9	0.1	1.57	1	<0.5
2099538	Core Chip	13	2	0.43	91	<0.001	<20	0.84	0.029	0.26	<0.1	0.21	0.9	0.1	1.18	2	<0.5
2099539	Core Chip	15	2	0.57	76	<0.001	<20	0.95	0.032	0.27	<0.1	0.03	1.2	0.1	0.33	4	<0.5
2099540	Core Chip	14	2	0.60	79	0.001	<20	0.97	0.034	0.30	<0.1	<0.01	1.0	0.1	0.43	4	<0.5
2099541	Core Chip	15	2	0.37	283	<0.001	<20	0.74	0.035	0.28	<0.1	<0.01	1.5	0.1	0.17	2	<0.5
2099542	Core Chip	15	2	0.51	130	<0.001	<20	0.87	0.035	0.29	<0.1	0.01	1.4	0.1	0.20	3	<0.5
2099543 Dup of 2099542	CORE DUP	14	2	0.51	145	<0.001	<20	0.88	0.034	0.28	<0.1	<0.01	1.5	0.1	0.23	3	<0.5
2099544	Core Chip	13	2	0.27	150	<0.001	<20	0.64	0.026	0.28	<0.1	0.01	1.1	<0.1	0.45	1	<0.5
2099545	Core Chip	14	2	0.34	451	<0.001	<20	0.64	0.025	0.30	<0.1	<0.01	0.9	0.2	0.22	1	<0.5
2099546	Core Chip	14	1	0.37	527	<0.001	<20	0.67	0.025	0.29	<0.1	0.02	1.1	0.1	0.47	1	<0.5
2099547	Core Chip	14	1	0.40	231	<0.001	<20	0.75	0.027	0.27	<0.1	0.04	1.2	0.1	0.34	2	<0.5
2099548	Core Chip	13	2	0.40	190	<0.001	<20	0.79	0.025	0.28	<0.1	0.13	1.0	0.1	0.82	2	<0.5
2099549	Core Chip	15	1	0.42	229	<0.001	<20	0.83	0.028	0.28	<0.1	0.02	1.1	<0.1	0.38	2	<0.5
2099550	Core Chip	13	2	0.39	155	<0.001	<20	0.80	0.030	0.25	<0.1	0.02	1.4	0.2	0.89	2	<0.5
2099551	Core Chip	13	2	0.43	87	<0.001	<20	0.86	0.030	0.23	<0.1	<0.01	1.7	0.2	0.90	2	<0.5
2099552	Core Chip	12	2	0.48	75	<0.001	<20	0.93	0.030	0.22	<0.1	0.01	1.9	0.3	0.81	2	<0.5
2099553	Core Chip	15	2	0.46	78	<0.001	<20	0.81	0.031	0.23	<0.1	<0.01	1.2	0.1	1.40	2	<0.5
2099554	Core Chip	12	3	0.68	89	0.001	<20	1.02	0.033	0.21	<0.1	<0.01	1.7	0.2	0.68	4	<0.5
2099555	Core Chip	10	1	0.30	72	<0.001	<20	0.59	0.022	0.19	<0.1	0.01	1.1	<0.1	1.23	2	<0.5
2099556	Core Chip	14	2	0.54	102	<0.001	<20	0.91	0.032	0.23	<0.1	0.03	1.3	<0.1	0.75	3	<0.5



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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099557	Core Chip	4.61	1.0	8.4	29.0	51	0.3	1.1	5.3	1704	2.24	14.8	4.2	1.5	222	0.5	<0.1	0.2	9	3.99
2099558	Core Chip	4.19	5.2	8.7	10.6	23	0.2	1.7	7.6	1694	2.52	15.9	3.7	1.6	201	0.2	0.1	0.1	19	4.19
2099559	Core Chip	4.42	20.6	8.9	20.9	31	0.2	3.7	9.7	1268	3.23	20.6	6.3	1.4	163	0.7	0.2	0.3	21	3.00
2099560	Core Chip	4.79	0.6	49.3	11.3	23	0.2	4.3	9.9	762	2.78	17.5	4.4	2.0	108	0.3	<0.1	2.7	13	2.10
2099561	Core Chip	4.35	0.4	65.0	10.4	32	0.5	16.0	18.8	874	3.80	3.4	8.3	0.7	144	<0.1	<0.1	2.4	36	2.25
2099562	Core Chip	4.22	0.5	3.2	10.8	57	0.4	61.9	35.3	745	5.85	5.5	4.7	0.9	99	<0.1	<0.1	5.8	75	1.12
2099563	Core Chip	4.28	1.6	7.4	11.5	63	0.8	78.6	54.4	1229	6.37	15.9	15.4	1.0	113	<0.1	<0.1	6.0	92	2.18
2099564	Rock Pulp	0.10	4.5	36.3	5.2	51	0.3	25.5	9.5	385	2.46	6.3	659.8	0.9	36	0.2	0.7	0.1	58	0.77
2099565	Core Chip	4.93	0.6	14.3	10.1	58	0.4	67.8	28.2	1185	4.80	8.6	6.2	1.0	128	<0.1	<0.1	3.5	82	2.45
2099566	Core Chip	3.95	0.7	14.3	13.5	26	0.3	14.4	23.0	1132	3.63	3.5	6.5	0.8	152	<0.1	<0.1	2.7	34	3.31
2099567	Core Chip	4.86	0.4	3.1	11.0	45	0.4	16.0	18.4	1029	4.86	6.1	3.2	0.9	117	0.1	<0.1	2.5	58	2.05
2099568	Core Chip	4.57	0.4	2.4	9.1	39	0.1	1.7	4.3	1465	2.44	11.9	2.2	2.0	164	0.1	<0.1	0.2	11	2.90
2099569	Core Chip	4.70	1.1	5.2	7.5	43	0.2	0.8	4.9	1314	2.47	6.1	1.2	2.0	161	0.2	<0.1	0.1	14	2.62
2099570	Core Chip	5.08	1.1	3.8	15.1	63	0.5	1.0	8.1	1302	2.77	7.7	1.6	2.1	126	0.2	<0.1	0.4	10	2.32
2099571	Core Chip	4.27	1.1	10.2	22.6	48	0.5	0.9	6.2	1060	2.53	14.3	0.6	2.0	90	0.8	<0.1	0.3	12	1.96
2099572	Core Chip	4.58	1.2	3.1	11.6	33	0.4	1.1	5.7	852	2.21	7.2	2.0	2.1	92	0.1	<0.1	0.2	13	1.48
2099573	Rock Pulp	0.12	26.2	77.1	20.3	142	1.7	77.6	7.9	309	2.81	707.0	17.8	1.9	31	1.9	6.3	4.5	55	2.04
2099574	Core Chip	4.40	1.0	10.9	6.6	27	0.3	1.4	6.2	832	2.45	6.0	1.6	2.1	86	<0.1	<0.1	0.2	14	1.32
2099575	Core Chip	3.89	0.9	6.5	3.3	26	0.3	1.2	6.1	982	2.59	5.2	1.2	1.9	106	<0.1	<0.1	0.2	20	1.77
2099576	Core Chip	3.04	1.3	2.3	6.7	23	0.4	1.6	5.7	783	2.38	6.3	2.5	2.1	91	<0.1	<0.1	0.4	13	1.81
2099577	Core Chip	4.71	1.4	6.8	4.5	22	0.3	1.4	5.4	731	2.17	5.1	<0.5	2.0	91	<0.1	<0.1	0.3	15	1.43
2099578	Core Chip	4.68	1.4	8.2	4.7	24	0.3	1.1	5.4	879	2.43	4.9	1.3	2.3	117	<0.1	<0.1	0.3	14	1.93
2099579	Rock Pulp	0.10	2.3	22.4	2.5	41	0.2	21.7	8.6	383	2.24	4.1	<0.5	0.9	39	0.1	0.2	<0.1	54	0.79
2099580	Core Chip	4.95	1.0	5.9	4.8	27	0.2	1.1	4.4	1064	2.36	4.4	1.2	2.1	126	<0.1	0.1	0.3	12	2.75
2099581	Core Chip	4.50	0.6	7.6	3.9	32	0.2	1.0	5.7	873	2.56	5.2	<0.5	2.2	113	<0.1	<0.1	0.3	14	1.95
2099582	Core Chip	4.43	1.2	11.5	5.8	24	0.4	0.7	5.7	942	2.58	5.2	0.8	2.3	149	<0.1	<0.1	0.7	13	2.82
2099583	Core Chip	4.69	1.0	1.9	5.2	22	0.7	1.1	5.7	1031	2.63	13.6	3.5	1.8	159	<0.1	<0.1	2.1	10	2.99
2099584	Core Chip	4.36	1.1	1.6	5.8	23	0.5	1.3	6.9	853	3.03	14.9	3.4	1.7	143	<0.1	<0.1	1.6	7	3.08
2099585	Core Chip	4.47	3.5	2.3	46.5	37	0.9	1.8	9.0	697	4.21	7.9	8.7	1.8	170	1.7	<0.1	2.6	8	3.20
2099586	Core Chip	4.69	3.8	2.7	10.2	23	0.2	1.3	8.1	669	3.21	6.2	3.7	1.4	176	0.2	<0.1	1.8	9	3.35



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099557	Core Chip	12	<1	0.45	77	<0.001	<20	0.77	0.028	0.23	<0.1	<0.01	1.4	0.1	1.02	2	<0.5
2099558	Core Chip	13	2	0.67	88	<0.001	<20	0.96	0.032	0.21	<0.1	<0.01	2.1	0.2	0.99	4	<0.5
2099559	Core Chip	13	2	0.74	85	<0.001	<20	1.13	0.032	0.21	<0.1	<0.01	2.3	0.2	1.76	4	<0.5
2099560	Core Chip	18	3	0.62	84	0.001	<20	0.97	0.024	0.29	<0.1	0.01	1.8	<0.1	1.99	2	<0.5
2099561	Core Chip	15	6	0.98	83	0.001	<20	1.30	0.033	0.27	<0.1	<0.01	3.9	<0.1	2.93	3	0.5
2099562	Core Chip	15	90	2.21	76	0.002	<20	2.15	0.030	0.23	<0.1	0.01	6.0	<0.1	4.45	7	0.7
2099563	Core Chip	13	141	3.26	61	0.001	<20	2.85	0.025	0.17	<0.1	0.03	6.5	<0.1	4.19	8	0.6
2099564	Rock Pulp	4	31	0.71	98	0.108	<20	1.46	0.073	0.13	10.5	0.05	4.0	<0.1	<0.05	5	<0.5
2099565	Core Chip	13	131	2.81	69	0.001	<20	2.52	0.026	0.19	<0.1	0.04	6.0	<0.1	2.56	7	<0.5
2099566	Core Chip	14	11	0.83	81	0.001	<20	1.23	0.030	0.26	<0.1	<0.01	4.2	<0.1	2.89	3	<0.5
2099567	Core Chip	16	9	1.64	74	0.002	<20	1.91	0.026	0.26	<0.1	<0.01	5.3	<0.1	3.28	5	0.9
2099568	Core Chip	28	<1	0.78	71	0.001	<20	1.17	0.022	0.30	<0.1	<0.01	2.3	<0.1	0.85	2	<0.5
2099569	Core Chip	30	<1	0.86	63	0.001	<20	1.12	0.029	0.30	<0.1	<0.01	2.3	<0.1	0.79	2	<0.5
2099570	Core Chip	30	<1	0.71	75	0.001	<20	0.95	0.024	0.31	<0.1	<0.01	1.8	<0.1	1.45	2	<0.5
2099571	Core Chip	26	<1	0.53	65	0.001	<20	0.89	0.024	0.28	<0.1	<0.01	1.8	0.1	1.30	2	<0.5
2099572	Core Chip	32	<1	0.56	68	0.001	<20	0.95	0.024	0.28	<0.1	<0.01	2.3	<0.1	0.98	2	<0.5
2099573	Rock Pulp	2	21	0.84	34	0.001	<20	0.32	0.003	0.17	1.6	5.51	3.0	1.9	1.85	1	6.1
2099574	Core Chip	32	<1	0.59	66	0.001	<20	1.07	0.030	0.29	<0.1	<0.01	2.4	<0.1	0.91	2	0.7
2099575	Core Chip	30	<1	0.58	60	0.002	<20	1.06	0.038	0.23	<0.1	<0.01	2.9	<0.1	0.89	3	0.7
2099576	Core Chip	32	1	0.54	67	0.001	<20	1.00	0.035	0.26	<0.1	<0.01	2.5	0.1	1.31	2	<0.5
2099577	Core Chip	32	2	0.57	74	0.001	<20	1.02	0.036	0.28	<0.1	<0.01	2.5	<0.1	0.95	2	0.7
2099578	Core Chip	33	<1	0.60	67	0.002	<20	0.99	0.036	0.28	<0.1	<0.01	2.8	<0.1	1.36	2	<0.5
2099579	Rock Pulp	4	28	0.72	96	0.115	<20	1.54	0.081	0.13	8.1	0.02	4.5	<0.1	<0.05	5	<0.5
2099580	Core Chip	30	<1	0.65	86	0.002	<20	1.09	0.025	0.28	<0.1	<0.01	2.1	<0.1	1.15	2	0.5
2099581	Core Chip	33	<1	0.70	83	0.001	<20	1.19	0.030	0.25	<0.1	<0.01	2.6	<0.1	0.90	2	<0.5
2099582	Core Chip	31	<1	0.62	99	0.002	<20	1.00	0.030	0.27	<0.1	<0.01	2.9	<0.1	1.57	2	<0.5
2099583	Core Chip	28	<1	0.80	95	0.001	<20	0.94	0.018	0.25	<0.1	<0.01	2.4	<0.1	1.95	2	0.7
2099584	Core Chip	24	<1	0.80	64	0.001	<20	0.87	0.018	0.25	<0.1	<0.01	1.9	<0.1	2.53	2	<0.5
2099585	Core Chip	25	<1	0.92	55	0.001	<20	0.80	0.023	0.24	<0.1	<0.01	1.9	<0.1	3.94	1	3.3
2099586	Core Chip	20	<1	0.96	62	0.001	<20	0.83	0.022	0.26	<0.1	0.02	1.9	<0.1	2.79	2	3.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099587	Core Chip	4.84	1.4	1.6	6.3	23	0.1	1.5	7.6	602	2.53	6.1	2.4	1.6	131	<0.1	<0.1	1.1	9	2.85
2099588	Core Chip	4.56	0.7	1.4	4.2	26	<0.1	1.0	6.7	799	2.51	3.8	<0.5	1.6	172	<0.1	<0.1	0.7	10	4.23
2099589	Core Chip	4.69	0.2	13.4	3.3	30	<0.1	1.2	4.7	890	2.22	4.6	<0.5	1.7	187	<0.1	<0.1	0.5	11	4.31
2099590	Core Chip	4.75	0.2	18.4	3.6	60	<0.1	1.0	4.2	992	2.40	5.2	<0.5	2.0	182	0.2	<0.1	0.2	13	3.67
2099591	Core Chip	4.48	0.4	11.2	4.5	42	0.1	1.1	5.1	996	2.31	10.2	1.5	2.0	198	0.1	0.1	0.7	18	4.15
2099592	Core Chip	4.65	0.1	16.4	6.0	37	<0.1	1.1	3.5	880	2.20	13.2	1.7	2.2	208	0.1	<0.1	0.2	12	3.17
2099593	Core Chip	4.58	0.2	8.0	3.6	32	<0.1	0.9	5.0	1026	2.36	14.2	2.2	2.5	158	0.1	<0.1	0.2	12	3.01
2099594	Core Chip	4.42	<0.1	5.7	3.8	34	<0.1	1.2	6.8	899	2.67	8.3	0.9	2.3	150	<0.1	<0.1	0.4	13	2.45
2099595	Core Chip	1.76	0.8	4.8	6.1	32	0.2	1.7	17.7	1167	3.57	11.9	4.1	3.6	195	0.1	<0.1	1.3	12	3.63



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099587	Core Chip	26	<1	0.75	65	0.001	<20	0.84	0.016	0.24	<0.1	<0.01	2.0	<0.1	1.86	2	1.2
2099588	Core Chip	28	<1	0.87	70	0.001	<20	1.05	0.014	0.26	<0.1	<0.01	2.1	<0.1	1.74	2	<0.5
2099589	Core Chip	26	<1	0.81	120	0.001	<20	1.06	0.016	0.24	<0.1	<0.01	2.1	<0.1	0.92	2	<0.5
2099590	Core Chip	31	<1	0.93	129	0.001	<20	1.30	0.019	0.25	<0.1	<0.01	2.6	<0.1	0.45	3	<0.5
2099591	Core Chip	32	<1	0.87	160	0.002	<20	1.95	0.018	0.52	<0.1	<0.01	3.4	0.1	0.47	4	<0.5
2099592	Core Chip	32	<1	1.02	371	0.001	<20	1.11	0.026	0.25	<0.1	<0.01	2.2	<0.1	0.43	2	<0.5
2099593	Core Chip	30	<1	0.76	90	0.001	<20	0.97	0.018	0.25	<0.1	<0.01	2.4	<0.1	0.56	2	<0.5
2099594	Core Chip	34	<1	0.86	86	<0.001	<20	1.20	0.024	0.23	<0.1	<0.01	3.0	<0.1	0.72	2	<0.5
2099595	Core Chip	44	<1	0.88	73	0.001	<20	1.15	0.020	0.23	<0.1	<0.01	2.4	<0.1	1.99	2	<0.5



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QUALITY CONTROL REPORT

SMI12000488.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
2099489	Core Chip	4.02	0.2	58.3	5.7	51	<0.1	23.0	15.6	876	3.92	1.1	<0.5	3.5	340	<0.1	0.6	<0.1	60	4.33	0.221
REP 2099489	QC		0.1	57.3	5.4	52	<0.1	21.8	15.0	843	3.85	0.8	<0.5	3.4	339	<0.1	0.6	<0.1	59	4.17	0.204
2099511	Core Chip	2.99	<0.1	39.9	5.9	53	<0.1	15.7	13.1	1433	3.08	1.1	<0.5	2.8	298	<0.1	<0.1	0.3	33	3.08	0.105
REP 2099511	QC		<0.1	35.9	5.4	52	<0.1	16.2	12.7	1380	2.96	1.3	<0.5	2.7	294	<0.1	<0.1	0.3	33	2.99	0.102
2099582	Core Chip	4.43	1.2	11.5	5.8	24	0.4	0.7	5.7	942	2.58	5.2	0.8	2.3	149	<0.1	<0.1	0.7	13	2.82	0.120
REP 2099582	QC		1.4	10.8	6.3	23	0.6	1.2	5.8	963	2.60	5.5	1.2	2.4	154	<0.1	<0.1	0.8	14	3.00	0.121
Core Reject Duplicates																					
2099499	Core Chip	4.32	0.2	41.5	5.9	67	<0.1	28.0	27.2	1031	3.54	0.8	0.8	2.4	299	0.2	0.2	<0.1	55	3.61	0.202
DUP 2099499	QC	N.A.	0.1	41.0	5.6	64	<0.1	29.5	26.2	1023	3.41	0.9	<0.5	2.3	280	0.2	0.2	<0.1	51	3.53	0.183
2099533	Core Chip	4.60	3.5	18.5	42.4	353	0.6	2.8	6.9	189	1.66	12.0	7.8	1.7	90	4.9	<0.1	1.1	5	0.30	0.101
DUP 2099533	QC	N.A.	3.2	18.0	50.3	363	0.8	2.4	7.2	208	1.71	12.4	5.9	1.7	93	5.0	<0.1	1.0	5	0.30	0.098
2099567	Core Chip	4.86	0.4	3.1	11.0	45	0.4	16.0	18.4	1029	4.86	6.1	3.2	0.9	117	0.1	<0.1	2.5	58	2.05	0.151
DUP 2099567	QC	N.A.	0.4	3.1	9.0	44	0.4	15.0	16.9	985	4.58	5.4	8.8	0.9	114	<0.1	<0.1	3.0	57	1.89	0.151
Reference Materials																					
STD DS9	Standard		12.1	108.5	119.3	301	1.9	41.6	7.9	590	2.32	25.1	107.8	6.1	67	2.4	4.2	6.4	39	0.73	0.086
STD DS9	Standard		12.7	112.7	134.4	320	1.8	40.8	7.7	583	2.35	24.8	108.4	6.4	69	2.2	4.7	6.5	40	0.72	0.081
STD DS9	Standard		11.4	110.3	134.0	310	2.1	39.8	7.9	576	2.30	26.3	114.5	6.2	71	2.2	4.3	7.1	38	0.70	0.085
STD DS9	Standard		13.2	114.3	127.1	305	1.7	41.1	7.7	569	2.36	26.5	106.5	6.6	67	2.5	4.1	6.3	40	0.71	0.080
STD DS9	Standard		11.3	106.4	124.1	313	2.4	38.7	7.6	558	2.27	25.1	190.9	6.1	69	2.3	4.1	6.1	37	0.70	0.078
STD OREAS45EA	Standard		1.5	708.9	14.4	30	0.3	392.2	54.9	403	23.15	9.8	65.1	10.0	2	<0.1	0.2	0.3	309	0.04	0.029
STD OREAS45EA	Standard		1.7	675.8	15.1	28	0.3	377.0	52.9	399	24.06	9.0	50.1	10.8	1	<0.1	0.2	0.2	294	0.04	0.027
STD OREAS45EA	Standard		1.5	685.3	14.3	32	0.3	383.3	51.0	404	22.40	9.1	52.1	10.0	2	<0.1	0.2	0.3	328	0.04	0.029
STD OREAS45EA	Standard		1.2	686.1	14.1	28	0.3	375.6	52.1	396	23.78	7.5	49.3	11.1	4	<0.1	0.2	0.3	305	0.04	0.027
STD OREAS45EA	Standard		1.2	658.2	12.8	28	0.3	365.5	49.2	367	20.04	8.5	38.5	9.1	1	<0.1	0.1	0.2	288	0.04	0.026
STD OREAS45EA Expected			1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
2099489	Core Chip	23	32	0.20	131	0.018	<20	0.80	0.073	0.30	0.1	<0.01	4.2	<0.1	<0.05	2	<0.5
REP 2099489	QC	23	32	0.20	127	0.017	<20	0.68	0.072	0.30	0.1	<0.01	4.0	<0.1	<0.05	2	<0.5
2099511	Core Chip	17	14	0.36	284	0.001	<20	1.18	0.095	0.15	<0.1	<0.01	4.1	<0.1	<0.05	3	<0.5
REP 2099511	QC	16	14	0.35	290	0.001	<20	1.18	0.093	0.15	<0.1	<0.01	3.8	<0.1	<0.05	3	<0.5
2099582	Core Chip	31	<1	0.62	99	0.002	<20	1.00	0.030	0.27	<0.1	<0.01	2.9	<0.1	1.57	2	<0.5
REP 2099582	QC	32	<1	0.63	108	0.001	<20	1.02	0.030	0.27	<0.1	<0.01	3.1	<0.1	1.66	2	1.1
Core Reject Duplicates																	
2099499	Core Chip	23	25	0.28	394	0.011	<20	0.95	0.058	0.29	0.2	<0.01	4.8	<0.1	<0.05	3	<0.5
DUP 2099499	QC	22	24	0.27	484	0.010	<20	0.91	0.057	0.30	0.2	<0.01	4.6	<0.1	<0.05	3	<0.5
2099533	Core Chip	11	3	0.16	87	<0.001	<20	0.55	0.032	0.26	<0.1	0.04	0.7	0.1	1.19	1	<0.5
DUP 2099533	QC	11	2	0.17	88	<0.001	<20	0.55	0.034	0.25	<0.1	0.04	0.7	0.1	1.24	1	<0.5
2099567	Core Chip	16	9	1.64	74	0.002	<20	1.91	0.026	0.26	<0.1	<0.01	5.3	<0.1	3.28	5	0.9
DUP 2099567	QC	15	9	1.61	75	0.002	<20	1.88	0.026	0.25	<0.1	<0.01	4.9	<0.1	3.01	5	<0.5
Reference Materials																	
STD DS9	Standard	12	118	0.63	321	0.110	<20	0.96	0.079	0.40	2.7	0.19	2.3	5.3	0.16	4	5.3
STD DS9	Standard	13	121	0.62	335	0.108	<20	0.95	0.082	0.40	3.2	0.21	2.3	5.8	0.16	5	6.1
STD DS9	Standard	12	124	0.62	323	0.108	<20	0.94	0.079	0.40	2.6	0.21	2.3	5.6	0.16	5	5.4
STD DS9	Standard	12	118	0.62	317	0.108	<20	0.92	0.073	0.39	2.6	0.17	2.3	5.3	0.17	5	5.5
STD DS9	Standard	12	117	0.60	312	0.099	<20	0.93	0.078	0.38	2.6	0.23	2.3	5.7	0.15	4	5.3
STD OREAS45EA	Standard	7	891	0.10	151	0.095	<20	3.19	0.017	0.05	<0.1	<0.01	76.3	<0.1	<0.05	12	0.7
STD OREAS45EA	Standard	7	909	0.10	145	0.093	<20	3.16	0.021	0.06	<0.1	0.01	74.4	<0.1	<0.05	13	<0.5
STD OREAS45EA	Standard	6	849	0.10	140	0.092	<20	3.08	0.012	0.05	<0.1	<0.01	77.4	<0.1	<0.05	13	1.2
STD OREAS45EA	Standard	7	869	0.09	152	0.091	<20	3.04	0.017	0.05	<0.1	<0.01	74.7	<0.1	<0.05	12	<0.5
STD OREAS45EA	Standard	6	829	0.09	132	0.080	<20	3.01	0.017	0.05	<0.1	0.01	73.1	<0.1	<0.05	12	<0.5
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Project:

Trout Property

Report Date:

November 09, 2012

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QUALITY CONTROL REPORT

SMI12000488.1

		WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	N.A.	<0.1	3.6	2.9	46	<0.1	4.1	4.3	568	1.87	<0.5	1.3	4.8	48	<0.1	<0.1	<0.1	35	0.48	0.075
G1-SMI	Prep Blank	N.A.	0.1	4.1	3.1	45	<0.1	3.3	4.0	533	1.79	<0.5	<0.5	5.4	50	<0.1	<0.1	<0.1	33	0.44	0.072



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QUALITY CONTROL REPORT

SMI12000488.1

		1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5	1DX Te ppm 0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	9	9	0.61	225	0.119	<20	0.91	0.061	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	9	8	0.52	206	0.118	<20	0.89	0.066	0.45	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 17, 2012
Report Date: November 06, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS

SMI12000489.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 118

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	114	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX1	118	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: November 06, 2012

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CERTIFICATE OF ANALYSIS

SMI12000489.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
G1-SMI	Prep Blank	N.A.	<0.1	1.6	2.7	46	<0.1	3.8	4.4	598	2.14	<0.5	2.5	4.9	57	<0.1	<0.1	<0.1	38	0.47
G1-SMI	Prep Blank	N.A.	0.1	1.9	2.7	47	<0.1	3.5	4.4	597	2.15	<0.5	<0.5	4.7	59	<0.1	<0.1	<0.1	38	0.56
2099351	Drill Core	4.57	0.7	28.3	6.0	33	<0.1	25.3	7.1	614	2.57	1.6	0.5	3.5	234	<0.1	0.7	<0.1	51	4.74
2099352	Drill Core	4.21	0.5	33.5	7.0	48	<0.1	26.3	11.8	519	2.66	36.6	5.7	2.9	172	<0.1	0.6	<0.1	41	2.94
2099353	Drill Core	3.88	0.1	37.1	8.5	50	0.2	18.5	11.1	872	2.38	5.5	1.2	2.7	268	<0.1	0.2	0.3	20	2.58
2099354	Drill Core	3.21	1.1	25.2	30.2	85	0.6	8.2	7.6	2104	1.89	23.0	7.2	1.8	281	0.5	0.1	0.3	8	5.34
2099355	Drill Core	3.69	0.7	7.2	30.7	98	0.6	2.2	6.8	1467	1.66	41.9	6.1	1.4	150	0.6	0.2	0.1	3	2.78
2099356	Drill Core	3.52	4.8	27.0	24.4	71	0.6	3.8	9.0	2155	2.65	27.4	7.1	1.6	157	0.2	<0.1	<0.1	20	2.47
2099357	Drill Core	4.48	12.3	62.7	19.5	101	0.8	2.8	9.1	2568	2.87	17.8	5.4	1.3	151	0.1	<0.1	<0.1	23	2.29
2099358	Drill Core	3.92	11.9	72.0	50.1	146	1.0	2.9	8.0	1869	2.67	46.9	8.1	1.5	115	1.0	0.2	<0.1	20	1.61
2099359	Drill Core	3.94	11.6	97.3	70.2	151	1.3	2.1	7.9	2295	2.70	34.6	7.1	1.6	150	1.4	<0.1	<0.1	15	2.35
2099360	Drill Core	4.44	17.3	95.4	42.9	158	1.3	2.3	8.1	1496	2.61	46.8	16.1	1.5	122	1.0	0.2	<0.1	11	1.52
2099361	Drill Core	4.17	4.8	55.3	30.1	149	1.2	2.5	7.3	2690	2.46	18.6	10.4	1.6	183	0.7	0.1	<0.1	21	3.19
2099362	Drill Core	4.28	9.6	58.0	68.1	162	0.9	2.4	7.4	2059	2.82	13.7	5.5	1.6	153	1.4	0.1	<0.1	22	2.59
2099363	Drill Core	3.95	3.1	47.2	23.9	114	0.6	1.8	6.1	1640	2.66	6.5	5.9	1.5	154	0.5	<0.1	<0.1	22	2.08
2099364	Drill Core	4.01	5.8	44.0	41.9	128	0.6	2.6	7.0	1302	2.38	13.3	6.7	1.7	173	0.9	<0.1	<0.1	11	2.27
2099365	Drill Core	4.28	3.7	32.5	21.8	72	0.3	2.7	7.2	1713	2.62	87.9	1.6	1.8	202	0.2	<0.1	<0.1	13	3.51
2099366	Drill Core	4.05	5.4	64.8	20.9	91	0.7	2.9	8.0	1060	2.42	82.5	4.2	1.7	139	0.6	0.1	<0.1	14	2.20
2099367	Drill Core	3.75	5.3	42.4	11.6	74	0.2	2.5	6.9	2217	2.59	17.8	<0.5	2.0	243	0.1	<0.1	<0.1	9	3.80
2099368	Drill Core	4.58	7.3	35.7	84.2	243	0.9	2.6	7.8	602	2.15	37.8	9.3	1.7	115	2.5	<0.1	0.2	5	1.06
2099369	Drill Core	3.85	8.6	20.4	34.1	68	0.7	3.1	9.4	898	2.39	36.7	5.3	1.6	124	0.4	<0.1	0.2	6	1.35
2099370	Drill Core	3.68	3.4	17.8	29.0	87	0.4	3.2	9.5	986	2.65	44.3	5.6	1.4	124	0.6	<0.1	0.2	10	1.34
2099371	Drill Core	4.29	15.4	28.0	94.6	301	0.9	3.3	9.3	1769	3.13	106.4	11.7	1.6	156	2.9	<0.1	0.2	10	2.32
2099372	Drill Core	4.26	11.4	21.9	38.5	124	1.1	9.6	9.0	493	2.82	17.8	15.2	1.6	39	0.8	0.3	0.8	5	0.36
2099373	Drill Core	3.67	6.7	4.7	36.4	110	0.6	1.9	6.1	163	2.92	8.0	7.5	1.4	32	0.8	0.2	0.6	5	0.23
2099374	Drill Core	3.85	3.8	4.6	29.5	102	0.4	2.1	6.1	202	2.49	3.2	4.8	1.6	35	0.8	<0.1	0.4	6	0.25
2099375	Drill Core	2.41	3.7	6.7	25.9	86	0.5	2.6	6.0	348	2.96	3.4	5.8	1.8	39	0.8	0.1	0.4	5	0.27
2099376	Drill Core	3.72	4.0	8.4	31.6	103	0.6	2.8	5.6	649	2.80	2.4	6.4	2.1	48	0.9	<0.1	0.4	7	0.30
2099377	Drill Core	3.63	4.8	19.1	23.4	119	0.4	3.0	6.5	380	2.76	2.2	4.0	2.1	57	1.0	0.1	0.4	7	0.34
2099378	Drill Core	3.61	5.0	5.8	28.6	78	0.6	4.1	6.8	266	2.91	2.9	11.2	1.8	28	0.8	0.1	0.5	4	0.26



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Project: Trout Property
Report Date: November 06, 2012

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CERTIFICATE OF ANALYSIS

SMI12000489.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	9	7	0.58	232	0.126	<20	0.99	0.087	0.50	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5
G1-SMI	Prep Blank	9	11	0.62	229	0.128	<20	1.00	0.083	0.49	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5
2099351	Drill Core	20	43	0.18	30	0.024	<20	0.86	0.021	0.39	0.1	<0.01	3.0	<0.1	<0.05	3	<0.5
2099352	Drill Core	20	40	0.20	42	0.018	<20	0.63	0.017	0.30	0.1	<0.01	3.1	0.2	0.17	2	<0.5
2099353	Drill Core	17	14	0.26	150	0.008	<20	1.01	0.023	0.47	<0.1	0.02	2.8	0.2	0.05	3	<0.5
2099354	Drill Core	11	4	0.15	252	0.001	<20	0.47	0.019	0.31	<0.1	0.01	1.7	0.2	0.83	1	0.7
2099355	Drill Core	8	<1	0.11	115	<0.001	<20	0.48	0.018	0.34	<0.1	0.01	0.7	0.3	1.19	1	<0.5
2099356	Drill Core	10	2	0.41	120	<0.001	<20	0.76	0.023	0.29	<0.1	0.01	1.7	0.1	1.11	3	<0.5
2099357	Drill Core	9	1	0.55	102	0.001	<20	1.02	0.028	0.30	0.1	<0.01	2.1	0.1	0.89	4	<0.5
2099358	Drill Core	8	2	0.40	79	<0.001	<20	0.70	0.030	0.23	<0.1	0.02	1.4	0.1	1.89	3	<0.5
2099359	Drill Core	10	2	0.34	132	0.001	<20	0.81	0.038	0.28	<0.1	<0.01	1.4	0.1	1.17	3	<0.5
2099360	Drill Core	8	1	0.22	60	<0.001	<20	0.56	0.024	0.27	<0.1	0.02	1.5	0.1	1.56	2	<0.5
2099361	Drill Core	11	2	0.35	333	0.002	<20	0.80	0.027	0.30	<0.1	0.03	2.0	0.1	0.67	3	<0.5
2099362	Drill Core	10	3	0.40	185	0.002	<20	0.80	0.029	0.28	<0.1	0.11	1.8	<0.1	1.06	3	<0.5
2099363	Drill Core	10	2	0.30	347	0.002	<20	0.73	0.029	0.31	<0.1	0.05	1.6	<0.1	0.55	2	<0.5
2099364	Drill Core	11	2	0.28	319	0.002	<20	0.73	0.031	0.33	<0.1	0.05	1.6	0.2	0.58	3	<0.5
2099365	Drill Core	12	2	0.31	162	0.001	<20	0.79	0.035	0.30	<0.1	0.01	2.2	0.1	1.05	2	<0.5
2099366	Drill Core	10	1	0.24	123	<0.001	<20	0.66	0.028	0.26	<0.1	0.02	2.0	0.2	1.11	2	<0.5
2099367	Drill Core	13	<1	0.36	131	<0.001	<20	0.72	0.039	0.27	<0.1	<0.01	2.0	0.2	0.53	2	<0.5
2099368	Drill Core	11	<1	0.16	66	<0.001	<20	0.48	0.028	0.23	0.1	0.06	1.1	0.1	1.71	1	<0.5
2099369	Drill Core	10	<1	0.19	116	<0.001	<20	0.59	0.031	0.22	<0.1	0.04	1.3	<0.1	1.60	2	<0.5
2099370	Drill Core	7	<1	0.29	99	<0.001	<20	0.74	0.033	0.21	<0.1	0.02	2.2	<0.1	1.69	2	<0.5
2099371	Drill Core	9	<1	0.36	74	<0.001	<20	0.75	0.035	0.21	<0.1	0.03	2.4	<0.1	2.37	2	<0.5
2099372	Drill Core	9	1	0.27	66	<0.001	<20	0.49	0.016	0.21	<0.1	0.02	1.1	0.1	2.73	1	1.1
2099373	Drill Core	9	<1	0.20	32	0.001	<20	0.47	0.016	0.26	0.2	0.02	0.7	0.2	3.10	1	0.9
2099374	Drill Core	10	<1	0.25	85	0.001	<20	0.55	0.016	0.30	0.2	0.01	0.8	0.2	2.56	1	0.9
2099375	Drill Core	9	<1	0.32	71	0.001	<20	0.58	0.019	0.29	0.3	0.02	1.0	0.2	3.08	1	1.5
2099376	Drill Core	10	<1	0.37	67	<0.001	<20	0.64	0.022	0.30	0.1	<0.01	1.5	0.1	2.77	1	1.1
2099377	Drill Core	11	<1	0.38	54	<0.001	<20	0.66	0.025	0.30	0.3	<0.01	1.4	0.1	2.83	1	1.7
2099378	Drill Core	9	<1	0.26	62	<0.001	<20	0.53	0.016	0.29	0.1	0.02	0.6	0.2	3.08	1	1.0



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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099379	Drill Core	3.74	6.9	9.4	57.2	142	0.8	5.5	7.5	452	2.90	2.4	7.4	2.0	45	1.3	0.2	0.8	4	0.47
2099380	Drill Core	4.88	3.4	10.6	24.5	85	0.5	1.7	6.4	605	2.58	2.9	4.3	1.7	89	0.9	<0.1	0.6	4	0.98
2099381	Drill Core	4.68	2.9	4.2	39.2	105	0.6	1.7	7.0	894	3.06	1.9	8.1	1.7	131	0.9	<0.1	0.7	4	1.44
2099382	Drill Core	4.47	2.9	6.0	34.0	104	0.5	1.7	6.8	617	2.77	1.0	6.7	1.6	105	1.0	<0.1	0.8	2	1.02
2099383	Drill Core	4.60	8.1	12.4	25.5	58	0.7	6.1	10.6	1168	3.77	3.6	16.0	1.5	106	0.4	0.1	1.6	4	1.92
2099384	Drill Core	4.35	3.7	14.3	25.1	32	0.8	17.8	20.4	892	4.29	6.3	18.7	1.6	88	0.2	0.1	1.5	7	1.32
2099385	Drill Core	4.94	3.1	4.8	74.2	384	0.9	2.7	7.2	944	3.51	1.8	11.9	1.8	82	4.1	0.1	1.4	2	1.52
2099386 Dup of 2099385	CORE DUP	N.A.	3.1	4.9	76.5	336	1.0	2.8	6.8	955	3.52	2.1	9.0	1.7	83	3.2	0.1	1.4	2	1.56
2099387	Drill Core	4.61	2.1	4.3	69.2	154	0.8	2.2	6.0	677	2.45	3.2	7.9	1.7	67	1.4	<0.1	0.7	2	1.23
2099388	Drill Core	4.66	1.5	21.4	15.9	47	0.4	1.9	7.5	1028	2.21	1.5	7.2	1.8	113	0.3	<0.1	0.5	6	2.04
2099389	Drill Core	5.17	0.8	24.4	13.8	54	0.4	1.5	5.7	1029	2.08	1.4	7.2	2.1	105	0.4	<0.1	0.4	6	2.08
2099390	Drill Core	4.55	1.1	7.1	51.3	118	0.7	1.9	7.1	886	2.68	4.1	9.7	1.8	87	1.2	<0.1	0.6	4	1.92
2099391	Drill Core	5.01	1.0	6.3	114.4	283	0.8	1.5	5.8	1451	2.71	2.6	7.7	1.6	122	3.2	<0.1	0.5	4	2.22
2099392	Drill Core	4.84	1.2	11.0	112.3	249	0.9	2.0	7.0	1717	2.99	3.7	8.6	1.6	187	2.9	<0.1	0.8	6	3.32
2099393	Drill Core	4.75	0.9	3.6	15.1	53	0.4	1.4	5.0	1340	2.71	4.5	5.6	1.3	154	0.4	<0.1	0.4	6	3.98
2099394	Drill Core	4.69	1.3	3.4	22.2	82	0.5	1.3	5.7	1157	2.94	6.1	7.1	2.0	132	0.6	<0.1	0.5	8	3.68
2099395	Drill Core	4.44	2.5	3.2	18.4	63	0.6	1.0	5.6	974	2.84	4.3	8.9	1.9	114	0.7	<0.1	0.7	8	2.28
2099396	Drill Core	4.97	2.0	4.8	22.8	55	0.4	1.2	6.9	815	3.22	5.9	7.9	1.4	122	0.5	<0.1	0.4	6	1.75
2099397	Drill Core	4.51	1.3	7.9	22.1	49	0.3	0.7	5.8	1565	2.31	5.0	4.1	1.1	166	0.5	<0.1	0.3	5	4.43
2099398	Drill Core	4.71	2.0	8.9	14.0	54	0.3	0.7	6.0	1140	2.40	4.4	3.7	1.2	163	0.5	<0.1	0.2	10	2.21
2099399	Drill Core	3.90	4.4	5.4	22.1	41	0.4	0.7	7.0	3690	2.44	6.0	2.8	0.9	342	0.3	<0.1	0.3	4	10.79
2099400	Drill Core	3.68	5.1	8.4	33.2	80	0.7	1.0	6.6	1090	3.06	9.4	11.1	1.3	93	0.9	0.1	0.3	6	2.80
2099401	Drill Core	4.64	3.1	6.3	30.4	89	0.6	1.3	6.6	729	2.29	6.4	3.4	1.4	99	0.8	<0.1	0.3	6	2.33
2099402	Drill Core	4.40	1.6	4.5	35.7	108	0.4	0.3	4.3	1060	2.08	3.3	7.4	1.5	179	1.0	<0.1	0.2	8	2.49
2099403	Drill Core	4.43	1.6	25.6	20.0	116	0.3	5.3	8.2	1400	2.31	5.7	6.6	1.9	183	0.7	<0.1	0.1	16	2.85
2099404	Drill Core	4.77	1.8	23.9	39.3	178	0.4	5.9	8.1	1891	2.39	6.0	7.9	1.7	234	1.5	<0.1	0.1	15	3.59
2099405	Rock Pulp	0.10	4.1	32.6	5.6	48	0.2	24.1	8.9	383	2.40	6.4	388.1	0.8	32	0.2	0.6	<0.1	55	0.75
2099406	Drill Core	4.49	2.1	4.5	26.3	100	0.6	3.7	6.3	1162	2.50	4.2	2.7	1.6	123	0.7	<0.1	0.2	12	2.08
2099407	Drill Core	5.10	2.5	11.0	47.0	121	0.8	1.7	6.3	1192	3.18	3.2	7.9	1.6	127	1.2	<0.1	0.3	8	2.41
2099408	Drill Core	4.04	2.4	7.8	38.1	174	1.2	2.4	7.2	1320	2.60	3.1	10.0	1.4	117	1.3	<0.1	0.5	5	3.15



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099379	Drill Core	8	<1	0.26	60	<0.001	<20	0.51	0.019	0.28	<0.1	0.02	0.8	0.2	3.06	<1	1.8
2099380	Drill Core	8	<1	0.24	62	<0.001	<20	0.51	0.023	0.30	0.1	<0.01	1.0	0.1	2.75	1	<0.5
2099381	Drill Core	6	<1	0.35	44	<0.001	<20	0.60	0.023	0.30	<0.1	0.03	1.0	0.1	3.29	<1	2.2
2099382	Drill Core	6	<1	0.21	56	<0.001	<20	0.48	0.023	0.30	<0.1	0.01	0.7	0.1	3.05	<1	3.9
2099383	Drill Core	5	<1	0.28	32	<0.001	<20	0.50	0.021	0.29	<0.1	0.01	1.1	0.2	4.12	<1	2.9
2099384	Drill Core	4	3	0.24	59	<0.001	<20	0.43	0.022	0.25	<0.1	0.01	1.5	0.1	4.51	<1	4.3
2099385	Drill Core	6	1	0.23	70	<0.001	<20	0.42	0.019	0.25	<0.1	0.02	0.9	0.1	3.70	<1	2.5
2099386 Dup of 2099385	CORE DUP	6	2	0.24	78	<0.001	<20	0.48	0.019	0.28	<0.1	0.02	1.0	0.2	3.68	<1	3.0
2099387	Drill Core	7	2	0.16	104	0.001	<20	0.41	0.018	0.27	<0.1	0.01	0.9	0.1	2.60	<1	2.0
2099388	Drill Core	7	2	0.35	145	0.001	<20	0.66	0.025	0.30	<0.1	0.01	1.6	0.1	2.02	1	1.4
2099389	Drill Core	7	1	0.39	141	0.001	<20	0.64	0.024	0.28	<0.1	<0.01	1.5	0.1	1.92	1	0.9
2099390	Drill Core	6	1	0.27	104	<0.001	<20	0.53	0.018	0.28	<0.1	0.02	1.1	0.1	2.76	<1	0.9
2099391	Drill Core	7	1	0.51	107	0.001	<20	0.56	0.021	0.26	<0.1	<0.01	1.4	0.2	2.74	1	1.1
2099392	Drill Core	6	1	0.85	117	0.001	<20	0.68	0.027	0.29	<0.1	0.01	1.5	0.2	2.91	1	1.2
2099393	Drill Core	6	1	0.49	100	0.001	<20	0.70	0.021	0.24	<0.1	<0.01	1.8	0.1	2.56	1	1.2
2099394	Drill Core	5	<1	0.48	98	0.001	<20	0.76	0.026	0.29	<0.1	0.01	2.0	0.2	2.83	1	0.9
2099395	Drill Core	6	1	0.61	94	0.001	<20	0.75	0.029	0.27	<0.1	<0.01	1.8	0.1	2.74	1	0.6
2099396	Drill Core	6	1	0.41	64	0.001	<20	0.75	0.026	0.30	<0.1	0.01	1.5	0.1	3.14	1	1.0
2099397	Drill Core	5	<1	0.38	128	0.001	<20	0.67	0.021	0.27	<0.1	<0.01	1.7	0.1	2.18	1	<0.5
2099398	Drill Core	7	1	0.51	121	0.001	<20	0.85	0.021	0.31	<0.1	<0.01	1.9	0.1	2.07	1	0.6
2099399	Drill Core	4	<1	0.30	104	0.001	<20	0.47	0.015	0.23	<0.1	<0.01	2.1	<0.1	2.33	<1	<0.5
2099400	Drill Core	5	<1	0.32	84	0.001	<20	0.73	0.022	0.35	<0.1	<0.01	1.5	0.1	3.07	1	0.6
2099401	Drill Core	5	1	0.36	135	0.002	<20	0.72	0.022	0.34	<0.1	<0.01	1.5	0.1	2.28	1	<0.5
2099402	Drill Core	7	<1	0.61	100	0.001	<20	0.77	0.022	0.29	<0.1	<0.01	1.8	0.1	1.96	1	<0.5
2099403	Drill Core	12	2	0.64	104	<0.001	<20	0.77	0.033	0.27	<0.1	<0.01	3.4	0.1	1.84	1	0.7
2099404	Drill Core	9	4	0.81	128	0.001	<20	0.82	0.036	0.31	<0.1	0.01	3.4	0.1	1.96	2	0.8
2099405	Rock Pulp	4	31	0.70	93	0.110	<20	1.45	0.079	0.13	10.5	0.05	4.3	<0.1	<0.05	5	<0.5
2099406	Drill Core	8	2	0.57	72	0.001	<20	0.79	0.028	0.35	<0.1	<0.01	2.8	0.1	2.29	2	0.7
2099407	Drill Core	7	2	0.72	76	0.002	<20	0.82	0.028	0.39	<0.1	<0.01	2.2	0.2	3.13	2	1.0
2099408	Drill Core	6	1	0.41	53	0.002	<20	0.64	0.018	0.30	<0.1	<0.01	1.6	0.1	2.63	1	1.3



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		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099409	Drill Core	4.69	2.3	2.8	37.3	123	1.0	1.6	6.5	1005	2.33	4.5	18.5	1.5	120	1.0	<0.1	0.3	9	2.32
2099410	Drill Core	4.26	1.4	2.2	29.5	73	0.4	0.8	3.6	1187	2.11	4.1	10.0	1.5	179	0.6	<0.1	0.1	12	2.34
2099411	Drill Core	4.47	0.9	3.2	21.1	111	0.4	0.8	5.3	1399	2.18	5.7	8.0	1.5	164	1.2	<0.1	0.2	14	3.62
2099412	Drill Core	3.69	1.1	7.9	55.7	212	0.7	1.4	4.4	3870	2.04	10.2	15.6	1.2	319	1.8	<0.1	0.2	8	9.06
2099413	Drill Core	4.30	2.4	4.4	91.7	273	1.1	2.2	9.7	1683	2.94	7.2	14.3	1.4	186	2.4	<0.1	0.4	9	3.79
2099414	Drill Core	4.20	1.4	40.0	40.4	176	1.0	11.7	16.2	1755	4.10	8.6	18.3	1.1	226	1.4	<0.1	0.5	14	4.10
2099415	Drill Core	4.04	0.6	98.7	11.9	365	0.7	28.0	27.5	2638	4.85	7.6	17.9	0.6	195	2.7	<0.1	0.6	51	4.38
2099416	Drill Core	4.46	0.8	83.0	9.6	127	0.8	28.6	24.3	2592	4.83	8.1	13.1	0.7	179	0.2	<0.1	0.5	79	3.48
2099417	Drill Core	4.85	0.7	64.6	7.0	161	0.5	30.0	25.3	3606	4.66	6.3	7.4	0.6	209	0.1	<0.1	0.3	89	4.35
2099418	Drill Core	4.24	1.2	43.9	8.5	168	0.6	12.2	14.5	1568	3.74	11.4	8.1	1.3	168	0.9	<0.1	0.3	28	2.89
2099419	Drill Core	4.35	1.7	18.2	27.5	158	0.4	1.4	6.3	992	2.47	7.7	8.1	1.7	135	1.6	<0.1	0.2	13	2.16
2099420	Rock Pulp	0.11	2.5	24.2	2.8	43	0.2	22.8	8.9	401	2.24	4.6	3.4	0.9	34	0.1	0.3	<0.1	55	0.79
2099421	Drill Core	4.40	1.8	18.9	126.6	590	0.9	2.3	8.1	995	2.78	8.4	7.4	1.8	80	6.1	0.1	0.4	10	2.30
2099422	Drill Core	3.84	1.2	11.2	75.2	156	0.6	2.0	11.3	643	2.19	6.7	5.4	2.4	58	1.4	0.1	0.3	6	1.59
2099423	Rock Pulp	0.11	25.1	80.1	19.9	142	1.6	80.1	8.2	317	2.79	686.4	28.4	1.8	27	1.9	6.9	3.8	53	2.03
2099424	Drill Core	4.28	3.4	27.9	59.3	259	0.8	7.4	12.0	993	2.49	11.0	6.7	2.1	94	2.6	0.1	0.3	13	3.01
2099425	Drill Core	4.39	1.2	8.4	29.0	56	0.8	3.2	9.7	1139	1.99	6.9	4.0	2.1	109	0.5	<0.1	0.2	4	4.64
2099426	Drill Core	4.61	1.1	8.2	39.0	108	0.8	2.1	7.5	938	2.22	3.7	2.1	2.2	82	1.1	<0.1	0.3	7	2.17
2099427	Drill Core	4.01	0.8	4.7	4.1	59	0.3	1.1	4.9	961	2.46	2.2	<0.5	1.9	73	<0.1	<0.1	<0.1	12	1.49
2099428	Drill Core	4.67	0.4	10.7	11.9	56	0.4	1.2	4.7	1010	3.19	2.1	4.7	1.9	73	0.1	<0.1	0.1	12	1.64
2099429	Drill Core	3.79	0.5	28.3	18.0	74	0.5	1.6	5.1	1088	3.00	2.7	7.7	1.9	73	0.4	<0.1	0.2	11	1.97
2099430	Drill Core	4.25	0.4	32.0	29.5	69	0.5	1.7	5.4	1331	3.33	3.0	7.8	1.9	93	0.5	<0.1	0.2	11	2.68
2099431	Drill Core	4.26	0.7	28.8	32.2	59	0.6	1.4	4.2	955	3.38	2.9	9.3	2.2	87	0.6	<0.1	0.4	9	2.27
2099432	Drill Core	4.39	2.0	21.9	17.1	51	0.3	1.4	4.4	1130	3.08	2.5	3.2	2.3	96	0.4	<0.1	0.3	9	2.76
2099433	Drill Core	4.57	1.0	15.7	13.0	54	0.3	1.4	6.7	976	2.75	2.5	5.7	2.4	87	0.2	<0.1	0.3	11	2.01
2099434	Drill Core	4.05	2.5	3.2	23.5	56	0.3	1.4	7.9	1142	3.11	5.2	3.3	2.3	122	0.3	<0.1	0.4	10	2.75
2099435	Drill Core	4.22	1.7	13.4	19.8	59	0.2	1.6	7.0	1366	2.38	3.8	2.9	2.5	100	0.3	<0.1	0.2	10	3.17
2099436	Drill Core	4.31	0.8	26.5	17.8	72	0.6	1.3	8.0	1353	2.62	4.7	3.1	2.2	98	0.6	<0.1	0.2	13	2.95
2099437	Drill Core	4.32	0.8	27.2	15.2	93	0.3	1.3	7.2	1062	2.78	1.9	1.8	2.0	79	0.5	<0.1	0.1	15	1.99
2099438	Drill Core	4.19	1.0	38.4	10.3	120	0.2	1.2	7.3	1110	2.62	2.6	2.0	1.8	74	0.5	<0.1	0.1	18	1.93



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Project: Trout Property
Report Date: November 06, 2012

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CERTIFICATE OF ANALYSIS

SMI12000489.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099409	Drill Core	8	2	0.44	73	0.002	<20	0.80	0.025	0.40	<0.1	<0.01	2.0	0.2	2.18	2	1.0
2099410	Drill Core	9	<1	1.00	80	0.001	<20	0.87	0.041	0.36	<0.1	0.01	2.3	0.1	1.66	2	0.5
2099411	Drill Core	8	1	0.75	76	0.002	<20	1.03	0.032	0.39	<0.1	<0.01	2.4	0.3	1.57	2	<0.5
2099412	Drill Core	9	1	0.68	73	0.001	<20	0.72	0.028	0.26	<0.1	<0.01	2.6	0.1	1.46	1	0.7
2099413	Drill Core	9	1	0.64	100	<0.001	<20	0.80	0.029	0.28	<0.1	<0.01	2.2	0.1	2.78	1	1.0
2099414	Drill Core	11	3	0.74	85	<0.001	<20	0.88	0.038	0.25	<0.1	0.01	3.7	<0.1	3.87	1	0.5
2099415	Drill Core	12	24	1.54	94	0.001	<20	1.58	0.053	0.22	<0.1	<0.01	8.2	<0.1	3.71	4	<0.5
2099416	Drill Core	11	36	2.18	105	0.002	<20	2.32	0.075	0.22	<0.1	<0.01	7.8	<0.1	3.25	6	<0.5
2099417	Drill Core	12	37	2.62	177	0.002	<20	2.59	0.060	0.21	<0.1	<0.01	8.1	<0.1	1.92	6	<0.5
2099418	Drill Core	15	7	0.89	91	<0.001	<20	1.25	0.045	0.26	<0.1	0.01	4.8	<0.1	2.72	3	<0.5
2099419	Drill Core	12	2	0.63	89	0.001	<20	0.91	0.031	0.28	<0.1	0.02	2.5	0.1	2.05	2	0.6
2099420	Rock Pulp	4	29	0.72	95	0.116	<20	1.50	0.085	0.13	8.3	0.01	4.6	<0.1	<0.05	5	<0.5
2099421	Drill Core	10	<1	0.54	102	0.002	<20	0.89	0.021	0.32	<0.1	0.05	1.5	0.2	2.52	2	0.6
2099422	Drill Core	10	3	0.48	87	0.002	<20	0.71	0.015	0.26	<0.1	0.01	1.2	0.1	2.11	1	<0.5
2099423	Rock Pulp	2	21	0.86	75	0.001	<20	0.27	0.003	0.18	1.7	5.84	3.2	2.1	1.87	1	5.9
2099424	Drill Core	10	5	0.52	90	0.002	<20	0.82	0.020	0.24	<0.1	0.02	2.6	<0.1	2.24	1	0.8
2099425	Drill Core	5	2	0.19	75	0.001	<20	0.40	0.014	0.23	<0.1	0.03	1.7	<0.1	2.07	<1	0.6
2099426	Drill Core	11	<1	0.50	97	0.002	<20	0.81	0.018	0.28	<0.1	0.02	1.4	<0.1	1.99	1	<0.5
2099427	Drill Core	17	2	0.66	141	0.002	<20	1.08	0.029	0.34	<0.1	<0.01	2.3	0.1	1.38	2	0.6
2099428	Drill Core	16	<1	0.71	134	0.002	<20	1.11	0.027	0.32	<0.1	0.02	2.0	0.1	2.32	2	<0.5
2099429	Drill Core	17	2	0.61	137	0.002	<20	1.00	0.021	0.31	<0.1	<0.01	2.0	0.1	2.41	2	0.6
2099430	Drill Core	18	<1	0.56	119	0.001	<20	0.94	0.028	0.30	<0.1	0.01	2.1	<0.1	2.79	2	0.6
2099431	Drill Core	18	2	0.68	98	0.001	<20	1.03	0.025	0.31	<0.1	<0.01	2.3	0.1	3.13	2	<0.5
2099432	Drill Core	17	<1	0.61	114	0.002	<20	0.95	0.024	0.31	<0.1	<0.01	2.0	0.1	2.80	2	0.6
2099433	Drill Core	21	2	0.62	103	0.001	<20	0.91	0.034	0.26	<0.1	<0.01	2.1	0.1	2.34	2	<0.5
2099434	Drill Core	19	<1	0.80	93	0.001	<20	0.87	0.032	0.27	<0.1	<0.01	2.0	0.1	2.77	1	0.9
2099435	Drill Core	24	<1	0.47	87	0.001	<20	0.82	0.025	0.30	<0.1	<0.01	2.0	0.1	1.77	1	<0.5
2099436	Drill Core	26	1	0.46	121	<0.001	<20	0.79	0.036	0.27	<0.1	<0.01	2.6	<0.1	1.64	2	<0.5
2099437	Drill Core	25	1	0.52	239	0.001	<20	0.91	0.043	0.25	<0.1	<0.01	3.6	<0.1	1.36	2	<0.5
2099438	Drill Core	25	<1	0.58	139	0.002	<20	1.01	0.045	0.23	<0.1	<0.01	4.3	<0.1	1.08	3	<0.5



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CERTIFICATE OF ANALYSIS

SMI12000489.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099439	Drill Core	4.82	1.7	25.0	42.5	107	0.3	1.6	9.6	1151	3.07	7.4	<0.5	1.8	122	0.6	<0.1	0.1	14	2.52
2099440	Drill Core	4.28	1.7	6.1	71.0	130	0.5	0.9	8.6	1137	3.03	4.9	4.9	2.1	125	1.0	<0.1	0.2	12	2.29
2099441	Drill Core	4.61	0.9	40.6	72.2	155	0.8	1.4	7.7	1176	2.95	2.8	6.8	2.1	100	0.9	<0.1	0.5	11	2.24
2099442	Drill Core	4.48	1.5	7.4	1362	2236	5.1	2.6	3.1	1025	1.26	4.0	15.0	1.7	123	29.2	0.1	3.2	8	3.01
2099443	Drill Core	4.64	0.9	105.6	272.5	452	5.1	15.7	19.0	1260	4.52	1.5	63.4	1.0	109	5.2	<0.1	2.7	23	3.26
2099444	Drill Core	3.79	1.7	9.8	144.7	278	1.2	4.9	10.6	1238	3.12	2.5	12.0	2.0	117	2.8	<0.1	1.1	12	3.13
2099445	Drill Core	4.32	3.5	11.1	147.0	374	2.9	3.1	10.8	1051	3.48	10.2	10.3	2.4	83	3.8	<0.1	3.8	9	2.14
2099446	Drill Core	4.63	1.7	7.4	65.5	140	0.5	1.3	6.2	1062	2.38	3.3	3.2	2.1	121	1.7	<0.1	0.3	9	2.55
2099447	Drill Core	4.29	0.7	11.6	26.6	101	0.3	1.2	5.1	1192	2.50	0.8	2.6	1.5	121	0.6	<0.1	0.1	12	2.71
2099448	Drill Core	4.69	0.5	10.0	8.5	76	0.2	1.1	6.2	1076	2.57	1.2	5.1	1.6	97	0.2	<0.1	<0.1	15	2.37
2099449	Drill Core	4.44	0.6	9.3	10.1	65	0.3	1.0	7.8	1235	2.68	2.2	2.4	1.6	121	0.1	<0.1	0.1	13	3.01
2099450	Drill Core	4.75	0.5	9.8	18.8	59	0.3	1.0	8.5	1371	2.69	1.3	2.8	1.4	117	0.2	<0.1	0.2	14	2.91
2099451	Drill Core	4.59	0.5	17.9	22.1	61	0.4	1.1	5.6	1347	2.56	1.8	2.3	1.5	120	0.3	<0.1	0.2	10	2.94
2099452	Drill Core	4.40	0.9	15.3	13.8	53	0.2	1.5	6.0	974	2.29	1.7	1.5	2.0	77	0.2	<0.1	0.2	8	2.14
2099453	Drill Core	4.44	1.4	8.2	10.8	31	0.2	1.3	5.5	612	2.22	5.1	5.3	1.9	65	0.3	<0.1	0.2	8	1.92
2099454	Drill Core	4.39	1.1	13.6	4.4	40	0.1	1.2	6.5	822	2.25	0.9	5.3	1.6	112	0.1	<0.1	0.2	9	1.88
2099455	Drill Core	4.50	2.6	8.3	7.5	40	0.1	1.2	7.3	1012	2.66	24.3	6.6	1.6	129	0.1	<0.1	0.2	9	2.61
2099456	Drill Core	4.59	1.4	3.1	3.1	34	<0.1	1.1	6.1	731	1.93	5.4	4.3	1.7	108	<0.1	<0.1	0.1	10	2.28
2099457	Drill Core	5.21	4.9	4.4	8.7	23	0.3	1.3	12.8	506	2.66	6.4	4.2	1.9	102	<0.1	<0.1	0.4	7	2.09
2099458	Drill Core	4.45	6.2	6.9	5.1	26	0.1	1.8	9.6	550	3.22	2.1	2.7	2.0	85	<0.1	<0.1	0.3	7	2.33
2099459	Drill Core	5.08	1.6	6.0	8.9	23	0.3	1.4	7.1	447	2.56	2.9	2.7	1.8	131	<0.1	<0.1	0.4	7	1.91
2099460	Drill Core	4.56	1.3	6.1	15.3	28	0.2	2.0	6.9	531	2.89	4.7	6.5	1.7	88	<0.1	<0.1	0.4	6	2.07
2099461	Drill Core	4.14	2.3	10.7	16.0	31	0.2	1.4	7.2	568	2.69	4.5	5.0	1.8	73	<0.1	<0.1	0.4	5	1.87
2099462	Drill Core	4.48	0.5	10.7	7.7	45	0.1	1.3	7.3	849	2.67	1.1	3.2	1.6	118	<0.1	<0.1	0.2	6	2.45
2099463	Drill Core	4.21	0.6	21.7	24.8	119	0.3	3.5	11.2	993	3.41	2.5	5.3	1.7	133	1.2	<0.1	0.2	20	2.82
2099464	Drill Core	4.56	0.8	59.8	10.1	68	0.3	21.9	30.8	954	4.24	1.8	5.7	0.7	157	<0.1	<0.1	0.2	36	3.64
2099465	Drill Core	4.61	0.4	38.7	11.1	102	0.2	25.8	22.1	1013	4.94	1.1	4.0	0.8	157	0.2	<0.1	0.1	64	3.84
2099466	Drill Core	3.16	0.9	77.7	15.0	103	0.3	24.6	25.7	1204	4.54	2.0	5.6	0.9	212	0.5	<0.1	0.3	42	4.06
2099467	Drill Core	4.59	0.4	21.1	38.2	134	0.5	8.2	15.0	1051	3.82	4.4	2.8	1.0	117	0.9	0.1	0.5	25	2.73
2099468	Drill Core	1.33	0.3	2.7	9.6	143	0.3	6.7	8.2	1703	4.39	4.8	4.4	1.4	166	0.1	<0.1	<0.1	46	3.38



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099439	Drill Core	22	1	0.66	79	0.001	<20	0.79	0.038	0.25	<0.1	<0.01	2.5	<0.1	2.32	2	<0.5
2099440	Drill Core	19	1	0.71	82	0.002	<20	0.87	0.035	0.28	<0.1	0.01	2.4	0.1	2.36	2	<0.5
2099441	Drill Core	23	1	0.59	78	0.001	<20	0.87	0.029	0.27	<0.1	<0.01	2.7	0.2	1.72	2	<0.5
2099442	Drill Core	9	1	0.45	81	0.001	<20	0.61	0.021	0.28	<0.1	0.03	1.6	0.1	0.80	1	<0.5
2099443	Drill Core	12	6	0.55	62	0.002	<20	0.67	0.019	0.23	<0.1	0.01	3.4	0.1	4.44	2	1.0
2099444	Drill Core	12	2	0.60	89	0.002	<20	0.85	0.021	0.31	<0.1	0.01	2.6	0.2	2.73	2	<0.5
2099445	Drill Core	13	1	0.55	93	0.003	<20	0.81	0.021	0.34	<0.1	<0.01	1.9	0.2	3.04	2	1.1
2099446	Drill Core	12	2	0.89	179	0.003	<20	0.87	0.028	0.37	<0.1	<0.01	1.7	0.2	1.82	2	<0.5
2099447	Drill Core	14	2	0.98	161	0.002	<20	0.98	0.027	0.31	<0.1	<0.01	2.2	0.1	1.44	2	<0.5
2099448	Drill Core	18	2	0.78	220	0.002	<20	1.12	0.026	0.33	<0.1	<0.01	2.5	0.1	0.85	2	<0.5
2099449	Drill Core	19	1	0.85	97	0.002	<20	1.00	0.030	0.36	<0.1	<0.01	2.4	0.1	1.30	2	<0.5
2099450	Drill Core	13	2	0.85	144	0.002	<20	1.04	0.026	0.31	<0.1	<0.01	2.6	0.1	1.38	2	<0.5
2099451	Drill Core	21	1	0.81	236	0.002	<20	0.93	0.028	0.33	<0.1	<0.01	2.3	0.1	1.30	2	<0.5
2099452	Drill Core	16	1	0.58	157	0.002	<20	0.86	0.021	0.33	<0.1	<0.01	1.7	0.1	1.48	1	<0.5
2099453	Drill Core	19	<1	0.48	77	0.002	<20	0.80	0.022	0.32	<0.1	<0.01	1.6	0.1	1.58	1	<0.5
2099454	Drill Core	19	1	0.59	76	0.001	<20	0.81	0.033	0.26	<0.1	0.02	1.7	<0.1	0.99	2	<0.5
2099455	Drill Core	13	2	0.68	82	0.002	<20	0.89	0.026	0.31	<0.1	<0.01	1.7	<0.1	1.83	2	1.3
2099456	Drill Core	12	1	0.83	86	0.002	<20	0.83	0.027	0.30	<0.1	0.02	1.6	<0.1	1.03	2	<0.5
2099457	Drill Core	8	2	0.76	71	0.002	<20	0.72	0.025	0.28	<0.1	0.01	1.3	0.1	2.31	1	1.0
2099458	Drill Core	9	2	0.76	66	0.002	<20	0.84	0.022	0.29	<0.1	<0.01	1.3	<0.1	2.80	2	0.8
2099459	Drill Core	10	2	0.80	70	0.002	<20	0.67	0.029	0.26	<0.1	<0.01	1.4	<0.1	2.22	1	<0.5
2099460	Drill Core	9	3	0.69	44	0.001	<20	0.72	0.024	0.23	<0.1	<0.01	1.3	<0.1	2.65	1	<0.5
2099461	Drill Core	14	2	0.55	64	0.001	<20	0.74	0.018	0.23	<0.1	<0.01	1.2	<0.1	2.27	1	0.8
2099462	Drill Core	16	1	0.65	59	0.001	<20	0.94	0.023	0.24	<0.1	0.01	1.5	<0.1	1.81	1	0.9
2099463	Drill Core	18	3	1.18	66	0.002	<20	1.62	0.023	0.23	<0.1	<0.01	2.9	<0.1	1.58	3	0.7
2099464	Drill Core	12	10	1.37	65	0.001	<20	1.69	0.028	0.17	<0.1	<0.01	4.9	<0.1	2.90	3	0.9
2099465	Drill Core	16	20	1.88	50	<0.001	<20	2.59	0.036	0.14	<0.1	<0.01	6.1	<0.1	2.27	4	0.8
2099466	Drill Core	18	14	1.65	46	<0.001	<20	2.05	0.034	0.15	<0.1	<0.01	6.8	<0.1	2.27	3	<0.5
2099467	Drill Core	18	3	0.80	45	0.001	<20	1.34	0.022	0.21	<0.1	0.03	4.1	<0.1	1.80	2	<0.5
2099468	Drill Core	20	3	1.24	53	0.002	<20	1.95	0.033	0.22	<0.1	0.02	5.6	<0.1	1.01	4	<0.5



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Client:

Venerable Ventures Ltd.

2644 Kilmarnock Crescent

North Vancouver BC V7J 2Z5 CANADA

Project:

Trout Property

Report Date:

November 06, 2012

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QUALITY CONTROL REPORT

SMI12000489.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
2099363	Drill Core	3.95	3.1	47.2	23.9	114	0.6	1.8	6.1	1640	2.66	6.5	5.9	1.5	154	0.5	<0.1	<0.1	22	2.08	0.099
REP 2099363	QC		3.3	47.0	26.7	116	0.6	1.9	6.0	1647	2.65	6.7	2.2	1.5	153	0.5	<0.1	<0.1	22	2.09	0.101
2099415	Drill Core	4.04	0.6	98.7	11.9	365	0.7	28.0	27.5	2638	4.85	7.6	17.9	0.6	195	2.7	<0.1	0.6	51	4.38	0.133
REP 2099415	QC		0.9	103.8	12.5	415	0.8	27.4	26.3	2619	4.71	7.7	16.2	0.6	194	3.8	<0.1	0.6	51	4.28	0.130
2099450	Drill Core	4.75	0.5	9.8	18.8	59	0.3	1.0	8.5	1371	2.69	1.3	2.8	1.4	117	0.2	<0.1	0.2	14	2.91	0.127
REP 2099450	QC		0.5	11.0	20.1	62	0.4	1.1	9.1	1388	2.74	1.6	2.0	1.5	121	0.2	<0.1	0.2	14	2.96	0.131
2099468	Drill Core	1.33	0.3	2.7	9.6	143	0.3	6.7	8.2	1703	4.39	4.8	4.4	1.4	166	0.1	<0.1	<0.1	46	3.38	0.142
REP 2099468	QC		0.3	2.2	9.2	141	0.3	6.9	7.8	1680	4.34	4.6	4.9	1.3	159	<0.1	<0.1	<0.1	46	3.32	0.143
Core Reject Duplicates																					
2099379	Drill Core	3.74	6.9	9.4	57.2	142	0.8	5.5	7.5	452	2.90	2.4	7.4	2.0	45	1.3	0.2	0.8	4	0.47	0.103
DUP 2099379	QC	<0.01	7.6	9.7	62.2	138	0.9	5.7	8.2	475	3.01	2.5	8.4	2.1	51	1.4	0.2	0.8	4	0.60	0.106
2099413	Drill Core	4.30	2.4	4.4	91.7	273	1.1	2.2	9.7	1683	2.94	7.2	14.3	1.4	186	2.4	<0.1	0.4	9	3.79	0.136
DUP 2099413	QC	N.A.	2.6	4.6	101.3	258	1.1	2.2	9.8	1716	2.98	6.9	11.1	1.4	190	2.8	<0.1	0.5	9	3.90	0.135
2099447	Drill Core	4.29	0.7	11.6	26.6	101	0.3	1.2	5.1	1192	2.50	0.8	2.6	1.5	121	0.6	<0.1	0.1	12	2.71	0.119
DUP 2099447	QC	N.A.	0.6	12.7	26.9	96	0.3	1.0	5.0	1188	2.53	1.0	1.4	1.4	118	0.6	<0.1	0.2	12	2.73	0.119
Reference Materials																					
STD DS9	Standard		11.5	110.6	131.0	312	1.9	39.6	8.0	566	2.29	24.7	94.0	5.9	57	2.4	4.5	5.7	37	0.66	0.081
STD DS9	Standard		13.2	114.1	127.3	321	2.2	41.5	7.7	611	2.44	24.9	148.1	6.1	65	2.4	4.3	5.6	40	0.73	0.084
STD DS9	Standard		12.2	105.7	128.3	304	1.7	40.8	7.3	575	2.32	26.4	95.9	6.2	68	2.4	4.3	6.0	41	0.71	0.082
STD DS9	Standard		11.3	105.9	127.9	326	1.9	41.8	7.7	564	2.33	26.4	122.4	6.8	72	2.2	3.9	6.4	38	0.68	0.089
STD OREAS45EA	Standard		1.4	684.7	14.8	31	0.3	388.7	55.1	412	24.02	8.8	51.8	10.3	3	<0.1	0.2	0.2	288	0.04	0.029
STD OREAS45EA	Standard		1.2	710.0	16.2	32	0.3	403.0	55.5	425	24.46	9.7	53.4	10.9	3	<0.1	0.2	0.2	301	0.04	0.029
STD OREAS45EA	Standard		1.2	699.6	14.1	30	0.2	383.4	51.7	402	23.74	9.1	54.6	10.4	2	<0.1	0.2	0.3	300	0.04	0.028
STD OREAS45EA	Standard		1.2	655.1	14.5	28	0.3	351.8	51.5	392	22.47	7.2	60.0	10.6	2	<0.1	0.2	0.2	276	0.04	0.028
STD OREAS45EA Expected			1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

SMI12000489.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
2099363	Drill Core	10	2	0.30	347	0.002	<20	0.73	0.029	0.31	<0.1	0.05	1.6	<0.1	0.55	2	<0.5
REP 2099363	QC	10	2	0.29	324	0.002	<20	0.72	0.029	0.30	<0.1	0.03	1.5	0.1	0.55	3	<0.5
2099415	Drill Core	12	24	1.54	94	0.001	<20	1.58	0.053	0.22	<0.1	<0.01	8.2	<0.1	3.71	4	<0.5
REP 2099415	QC	12	25	1.53	96	0.001	<20	1.58	0.051	0.22	<0.1	0.01	8.5	<0.1	3.60	4	<0.5
2099450	Drill Core	13	2	0.85	144	0.002	<20	1.04	0.026	0.31	<0.1	<0.01	2.6	0.1	1.38	2	<0.5
REP 2099450	QC	13	1	0.85	146	0.002	<20	1.05	0.027	0.32	<0.1	<0.01	2.6	0.1	1.40	2	<0.5
2099468	Drill Core	20	3	1.24	53	0.002	<20	1.95	0.033	0.22	<0.1	0.02	5.6	<0.1	1.01	4	<0.5
REP 2099468	QC	20	3	1.22	51	0.001	<20	1.92	0.032	0.21	<0.1	<0.01	5.5	<0.1	1.01	4	<0.5
Core Reject Duplicates																	
2099379	Drill Core	8	<1	0.26	60	<0.001	<20	0.51	0.019	0.28	<0.1	0.02	0.8	0.2	3.06	<1	1.8
DUP 2099379	QC	8	<1	0.28	60	<0.001	<20	0.53	0.019	0.28	0.1	0.02	0.8	0.2	3.18	1	2.9
2099413	Drill Core	9	1	0.64	100	<0.001	<20	0.80	0.029	0.28	<0.1	<0.01	2.2	0.1	2.78	1	1.0
DUP 2099413	QC	9	<1	0.61	95	<0.001	<20	0.73	0.028	0.25	<0.1	0.02	2.0	0.1	2.88	1	1.1
2099447	Drill Core	14	2	0.98	161	0.002	<20	0.98	0.027	0.31	<0.1	<0.01	2.2	0.1	1.44	2	<0.5
DUP 2099447	QC	13	1	0.98	156	0.002	<20	0.97	0.028	0.31	<0.1	<0.01	2.3	0.2	1.42	2	<0.5
Reference Materials																	
STD DS9	Standard	10	117	0.59	315	0.101	<20	0.88	0.075	0.39	2.7	0.22	2.2	5.3	0.16	4	5.8
STD DS9	Standard	12	125	0.64	337	0.113	<20	0.97	0.087	0.42	3.1	0.21	2.4	5.5	0.17	5	5.4
STD DS9	Standard	12	117	0.61	323	0.107	<20	0.93	0.082	0.40	2.9	0.20	2.3	5.4	0.18	5	5.6
STD DS9	Standard	12	120	0.61	324	0.107	<20	0.90	0.079	0.40	2.5	0.24	2.3	5.2	0.17	4	5.6
STD OREAS45EA	Standard	6	953	0.09	149	0.096	<20	3.17	0.024	0.05	<0.1	0.01	79.7	<0.1	<0.05	12	0.5
STD OREAS45EA	Standard	7	989	0.09	158	0.098	<20	3.30	0.025	0.05	<0.1	0.02	82.0	<0.1	<0.05	13	<0.5
STD OREAS45EA	Standard	6	856	0.09	140	0.090	<20	3.20	0.024	0.05	<0.1	0.02	79.8	<0.1	<0.05	12	<0.5
STD OREAS45EA	Standard	7	820	0.09	144	0.089	<20	2.91	0.023	0.05	<0.1	<0.01	74.6	<0.1	<0.05	12	<0.5
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.02	0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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QUALITY CONTROL REPORT

SMI12000489.1

		WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	N.A.	<0.1	1.6	2.7	46	<0.1	3.8	4.4	598	2.14	<0.5	2.5	4.9	57	<0.1	<0.1	<0.1	38	0.47	0.077
G1-SMI	Prep Blank	N.A.	0.1	1.9	2.7	47	<0.1	3.5	4.4	597	2.15	<0.5	<0.5	4.7	59	<0.1	<0.1	<0.1	38	0.56	0.076



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QUALITY CONTROL REPORT

SMI12000489.1

		1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5	1DX Te ppm 0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	9	7	0.58	232	0.126	<20	0.99	0.087	0.50	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	9	11	0.62	229	0.128	<20	1.00	0.083	0.49	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



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Client: **Venerable Ventures Ltd.**
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Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 17, 2012
Report Date: November 05, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000490.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 15

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	14	Dry at 60C			SMI
SS80	14	Dry at 60C sieve 100g to -80 mesh			SMI
1F01	14	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Trout Property
Report Date: November 05, 2012

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CERTIFICATE OF ANALYSIS

SMI12000490.1

	Method Analyte Unit MDL	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
1000	Soil	1.94	14.73	7.18	51.8	1624	9.8	3.3	475	1.08	4.1	<0.1	4.3	<0.1	47.1	2.97	0.11	0.47	19
1001	Soil	1.76	51.64	10.03	188.9	2266	14.4	13.1	2530	1.12	4.0	0.2	3.5	<0.1	45.5	1.42	0.17	0.59	18
1002	Soil	3.08	58.77	10.86	89.1	1814	12.7	14.7	4513	2.47	21.0	0.2	1.2	<0.1	30.7	2.23	0.35	0.99	49
1003	Soil	2.89	20.22	9.85	46.7	1110	12.0	4.3	965	0.83	1.9	<0.1	1.6	<0.1	40.4	0.82	0.14	0.25	18
1004	Soil	5.14	24.61	13.53	104.7	1485	11.4	6.0	2371	2.46	10.8	0.2	4.1	<0.1	48.4	0.61	0.36	1.73	38
1005	Soil	7.21	110.0	17.51	293.7	1179	17.2	29.2	5951	4.03	32.1	0.3	<0.2	0.3	65.3	5.55	0.52	4.22	80
1006	Soil	1.76	23.58	14.34	144.2	323	13.5	9.1	1588	2.31	7.2	0.3	<0.2	0.2	21.4	0.55	0.17	0.43	46
1007 NS	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1008	Soil	41.20	41.84	16.69	115.5	688	12.4	11.0	2785	10.25	194.1	1.5	7.0	1.3	35.0	0.68	1.46	7.21	140
1009	Soil	1.80	5.70	9.77	103.1	168	7.2	2.3	305	0.90	1.2	0.1	1.1	<0.1	36.7	0.50	0.15	0.15	25
1010	Soil	2.07	10.61	4.88	185.0	380	3.9	2.6	752	0.37	1.1	<0.1	0.7	<0.1	89.1	1.48	0.06	0.09	7
1011	Soil	2.98	9.60	10.25	96.8	204	11.3	7.0	1375	1.80	3.4	0.2	<0.2	0.5	45.7	0.58	0.26	0.10	40
1012	Soil	2.10	7.00	7.66	46.6	125	5.4	3.6	153	1.18	0.5	0.1	<0.2	0.2	32.8	1.32	0.14	0.12	31
1013	Soil	2.09	9.34	11.43	111.8	150	11.5	7.6	752	2.28	3.3	0.3	<0.2	1.0	31.6	1.02	0.19	0.16	53
1014	Soil	1.74	6.89	6.30	37.6	228	6.3	3.5	126	1.59	3.2	0.2	<0.2	0.4	34.4	0.86	0.25	0.11	44



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Project: Trout Property
Report Date: November 05, 2012

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CERTIFICATE OF ANALYSIS

SMI12000490.1

	Method Analyte Unit MDL	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
1000	Soil	2.8	13.4	0.13	288.3	0.004	<20	0.63	0.003	0.08	0.1	0.4	0.04	0.06	209	0.4	<0.02
1001	Soil	11.0	10.3	0.10	464.8	0.006	<20	0.94	0.002	0.06	<0.1	0.5	0.08	0.06	172	0.3	<0.02
1002	Soil	7.0	14.7	0.21	260.7	0.010	<20	0.94	0.001	0.06	<0.1	1.0	0.07	0.06	171	0.3	0.13
1003	Soil	3.0	12.9	0.19	216.7	0.007	<20	0.51	0.002	0.08	0.2	0.5	0.05	0.10	272	0.2	<0.02
1004	Soil	6.4	16.5	0.33	165.5	0.014	<20	0.97	0.003	0.14	0.2	0.9	0.16	0.19	288	0.3	0.53
1005	Soil	12.4	16.5	0.57	490.6	0.026	<20	2.23	<0.001	0.11	0.2	2.7	0.17	0.07	139	0.2	0.38
1006	Soil	8.6	17.7	0.25	191.5	0.038	<20	1.67	0.003	0.10	<0.1	1.8	0.13	0.03	103	<0.1	0.04
1007 NS	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1008	Soil	22.8	20.0	0.99	267.7	0.013	<20	2.84	<0.001	0.13	0.3	4.8	0.35	0.13	85	0.3	0.61
1009	Soil	3.7	12.9	0.08	207.7	0.022	<20	0.43	0.004	0.15	<0.1	0.7	0.03	0.05	81	0.1	<0.02
1010	Soil	1.3	6.3	0.12	108.2	0.012	<20	0.25	0.003	0.07	<0.1	0.7	0.03	0.14	158	0.1	<0.02
1011	Soil	7.5	17.3	0.25	172.1	0.049	<20	0.86	0.006	0.17	<0.1	2.5	0.06	0.03	127	0.2	<0.02
1012	Soil	5.4	11.8	0.07	171.9	0.042	<20	0.47	0.006	0.06	<0.1	1.2	0.03	0.03	59	0.2	<0.02
1013	Soil	8.4	24.1	0.24	161.3	0.060	<20	1.11	0.006	0.09	<0.1	2.9	0.07	<0.02	61	<0.1	0.03
1014	Soil	4.7	14.9	0.15	99.5	0.057	<20	0.55	0.005	0.07	0.1	1.7	0.04	0.04	96	0.2	<0.02



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Project: Trout Property
Report Date: November 05, 2012

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QUALITY CONTROL REPORT

SMI12000490.1

	Method Analyte Unit MDL	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																				
1014	Soil	1.74	6.89	6.30	37.6	228	6.3	3.5	126	1.59	3.2	0.2	<0.2	0.4	34.4	0.86	0.25	0.11	44	0.30
REP 1014	QC	1.86	7.01	6.82	36.6	259	5.1	3.3	127	1.56	2.5	0.2	<0.2	0.4	37.1	0.98	0.26	0.14	42	0.31
Reference Materials																				
STD DS9	Standard	11.87	106.3	130.9	310.6	1945	39.5	7.0	598	2.40	25.7	2.5	117.4	6.3	71.8	2.44	4.18	6.49	41	0.73
STD OREAS45EA	Standard	1.50	700.2	14.28	30.3	266	405.3	50.6	407	23.71	9.0	1.8	52.4	10.0	2.7	0.01	0.14	0.32	301	0.03
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
STD OREAS45EA Expected		1.78	709	14.3	30.6	311	357	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.64	0.26	295	0.032
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01



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QUALITY CONTROL REPORT

SMI12000490.1

	Method Analyte Unit MDL	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
Pulp Duplicates																	
1014	Soil	4.7	14.9	0.15	99.5	0.057	<20	0.55	0.005	0.07	0.1	1.7	0.04	0.04	96	0.2	<0.02
REP 1014	QC	4.7	15.5	0.15	103.8	0.057	<20	0.56	0.005	0.07	<0.1	1.6	0.04	0.04	87	<0.1	0.03
Reference Materials																	
STD DS9	Standard	12.5	115.9	0.63	331.6	0.110	<20	0.96	0.080	0.40	2.3	2.7	5.72	0.16	233	5.7	4.76
STD OREAS45EA	Standard	6.6	866.0	0.10	143.9	0.093	<20	3.19	0.017	0.05	<0.1	78.6	<0.02	0.04	<5	0.6	0.24
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		78	0.072	0.044	340	2.09	0.11
BLK	Blank	<0.5	0.7	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02



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Submitted By: Ryan Sharp

Receiving Lab: Canada-Smithers

Received: October 22, 2012

Report Date: November 14, 2012

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CERTIFICATE OF ANALYSIS

SMI12000494.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 58

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	54	Crush, split and pulverize 250 g rock to 200 mesh			SMI
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN
1DX1	58	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

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November 14, 2012

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CERTIFICATE OF ANALYSIS

SMI12000494.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
G1-SMI	Prep Blank	N.A.	<0.1	40.3	6.1	47	0.3	2.8	3.8	543	1.89	0.8	1.1	5.7	63	<0.1	<0.1	0.1	34	0.44
G1-SMI	Prep Blank	N.A.	<0.1	2.9	3.2	45	<0.1	2.2	4.0	575	1.93	<0.5	1.9	5.7	58	<0.1	<0.1	<0.1	37	0.49
2099694	Drill Core	4.43	0.2	31.3	5.5	61	<0.1	9.7	17.1	496	3.24	1.9	2.1	2.6	133	<0.1	<0.1	<0.1	73	0.92
2099695	Drill Core	2.28	0.7	10.8	5.1	55	0.1	3.0	6.8	672	2.69	0.9	1.3	3.4	54	<0.1	<0.1	<0.1	57	0.57
2099696	Drill Core	4.68	0.5	34.3	3.5	58	<0.1	8.3	13.8	1555	3.52	3.3	<0.5	2.4	185	<0.1	<0.1	<0.1	109	1.18
2099697	Drill Core	2.79	0.4	30.3	2.5	54	0.1	8.1	15.5	1547	3.75	3.1	0.8	2.0	115	<0.1	<0.1	<0.1	144	1.38
2099698	Drill Core	0.86	0.2	40.8	2.4	47	0.2	8.5	14.5	804	3.36	4.0	2.0	1.8	559	<0.1	<0.1	<0.1	124	1.69
2099699	Drill Core	4.05	0.4	42.3	2.2	60	<0.1	8.1	15.6	1648	3.96	3.7	<0.5	1.9	256	<0.1	<0.1	<0.1	150	1.55
2099700	Drill Core	2.50	0.2	34.8	1.9	46	<0.1	6.6	12.5	980	3.17	4.0	<0.5	1.9	695	<0.1	<0.1	<0.1	97	2.98
2099701	Drill Core	3.18	0.2	18.9	4.5	50	<0.1	5.3	8.3	1091	2.28	7.6	0.6	2.0	552	<0.1	<0.1	<0.1	52	2.69
2099702	Drill Core	3.42	<0.1	20.6	4.9	56	<0.1	5.2	8.7	1149	2.39	7.6	3.2	2.1	589	<0.1	<0.1	<0.1	56	2.75
2099703	Drill Core	3.29	0.1	38.3	3.3	52	<0.1	7.8	14.0	851	3.23	3.2	2.1	2.4	428	<0.1	<0.1	<0.1	93	2.08
2099704	Drill Core	2.62	<0.1	39.6	5.3	56	<0.1	11.1	13.0	641	3.08	1.3	1.1	2.7	146	<0.1	<0.1	<0.1	62	1.05
2099705	Drill Core	2.97	0.1	30.1	5.1	55	<0.1	8.7	12.2	538	2.84	1.1	<0.5	2.7	167	<0.1	<0.1	<0.1	59	1.08
2099706	Drill Core	3.29	<0.1	44.2	4.5	56	<0.1	9.9	16.7	474	3.01	4.8	<0.5	2.8	232	0.1	<0.1	<0.1	81	1.60
2099707	Drill Core	3.90	0.2	38.2	4.9	60	<0.1	12.0	14.3	687	3.26	1.6	0.7	2.4	132	<0.1	<0.1	<0.1	73	0.99
2099708	Drill Core	2.81	0.2	35.7	4.7	72	<0.1	12.8	15.2	768	3.50	3.1	<0.5	2.3	141	0.1	<0.1	<0.1	88	1.19
2099709	Drill Core	2.65	0.2	35.5	3.6	56	<0.1	11.4	14.4	888	3.48	3.0	<0.5	2.1	146	<0.1	<0.1	<0.1	89	1.52
2099710	Drill Core	3.25	0.2	35.9	4.0	61	<0.1	15.5	16.8	910	3.46	1.7	<0.5	2.3	143	0.1	<0.1	<0.1	75	1.98
2099711	Drill Core	2.94	0.2	41.5	3.8	59	<0.1	15.2	17.9	1072	3.60	1.6	1.2	2.1	175	0.2	<0.1	<0.1	89	1.65
2099712	Drill Core	3.24	0.2	23.6	3.7	56	<0.1	12.6	13.3	1509	3.16	1.9	<0.5	1.9	203	0.1	<0.1	<0.1	85	3.53
2099713	Drill Core	2.46	0.2	33.4	5.1	61	0.1	9.9	13.3	954	3.36	3.1	1.3	2.1	680	<0.1	<0.1	<0.1	81	1.87
2099714	Drill Core	1.21	0.3	34.1	4.2	67	0.2	9.7	13.0	1033	3.55	2.6	<0.5	2.3	533	<0.1	<0.1	<0.1	92	1.47
2099715	Drill Core	6.21	0.4	39.1	3.5	62	0.5	17.1	17.6	1158	3.76	3.0	<0.5	1.9	206	<0.1	<0.1	<0.1	115	1.92
2099716	Drill Core	1.48	0.4	44.5	3.0	54	0.1	17.9	17.8	1033	3.55	2.1	<0.5	1.8	240	<0.1	<0.1	<0.1	98	3.69
2099717	Drill Core	3.61	0.3	41.0	3.2	53	<0.1	17.1	16.6	955	3.52	2.1	<0.5	1.8	151	<0.1	<0.1	<0.1	94	3.33
2099718	Drill Core	3.63	0.2	38.3	3.7	55	0.2	12.2	14.3	784	3.11	3.2	<0.5	2.0	186	<0.1	<0.1	<0.1	82	2.75
2099719	Drill Core	3.14	0.4	40.3	3.6	57	0.1	19.9	17.4	938	3.79	3.7	<0.5	2.6	149	<0.1	<0.1	<0.1	106	1.42
2099720	Drill Core	3.73	0.3	32.3	3.6	49	0.2	13.6	16.5	1147	3.05	1.6	<0.5	1.9	108	0.1	<0.1	<0.1	61	6.00
2099721	Drill Core	4.31	<0.1	41.9	2.8	42	<0.1	12.5	16.2	759	3.11	2.1	<0.5	1.2	170	<0.1	<0.1	<0.1	67	5.76



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CERTIFICATE OF ANALYSIS

SMI12000494.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	11	8	0.48	138	0.117	<20	0.84	0.074	0.46	<0.1	<0.01	1.9	0.3	<0.05	5	<0.5
G1-SMI	Prep Blank	11	4	0.51	157	0.122	<20	0.90	0.076	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5
2099694	Drill Core	20	8	0.82	74	0.006	<20	2.50	0.048	0.18	<0.1	0.28	7.1	<0.1	<0.05	7	<0.5
2099695	Drill Core	26	3	0.67	70	0.016	<20	1.41	0.079	0.15	<0.1	<0.01	5.6	<0.1	<0.05	5	<0.5
2099696	Drill Core	18	9	1.27	216	0.117	<20	2.07	0.086	0.11	<0.1	0.02	10.7	<0.1	<0.05	7	<0.5
2099697	Drill Core	16	9	1.77	110	0.153	<20	2.12	0.096	0.07	0.2	<0.01	12.6	<0.1	<0.05	7	<0.5
2099698	Drill Core	16	9	1.29	697	0.079	<20	2.45	0.131	0.17	<0.1	0.03	9.7	<0.1	<0.05	6	<0.5
2099699	Drill Core	16	10	1.44	252	0.095	<20	2.76	0.154	0.10	<0.1	0.01	11.6	<0.1	<0.05	7	<0.5
2099700	Drill Core	15	6	0.98	803	0.021	<20	2.32	0.159	0.10	<0.1	0.01	10.2	<0.1	<0.05	5	<0.5
2099701	Drill Core	23	6	0.79	589	0.007	<20	1.97	0.149	0.14	<0.1	0.06	5.3	<0.1	<0.05	4	<0.5
2099702	Drill Core	23	5	0.85	616	0.008	<20	2.15	0.156	0.15	<0.1	0.07	5.6	<0.1	<0.05	5	<0.5
2099703	Drill Core	16	7	0.96	419	0.008	<20	2.52	0.165	0.13	<0.1	0.19	10.3	<0.1	<0.05	6	<0.5
2099704	Drill Core	20	9	0.62	67	0.004	<20	1.99	0.120	0.13	<0.1	0.46	5.5	<0.1	<0.05	5	<0.5
2099705	Drill Core	19	8	0.56	85	0.004	<20	1.88	0.121	0.13	<0.1	0.41	5.6	<0.1	<0.05	5	<0.5
2099706	Drill Core	19	7	0.64	157	0.006	<20	2.48	0.169	0.17	<0.1	0.61	10.4	<0.1	<0.05	7	<0.5
2099707	Drill Core	19	11	0.82	76	0.007	<20	2.13	0.111	0.13	<0.1	0.57	6.9	<0.1	<0.05	6	<0.5
2099708	Drill Core	19	13	1.03	109	0.015	<20	2.16	0.122	0.12	<0.1	0.48	8.5	<0.1	<0.05	7	<0.5
2099709	Drill Core	17	12	1.00	140	0.032	<20	2.08	0.128	0.11	<0.1	0.36	9.2	<0.1	<0.05	6	<0.5
2099710	Drill Core	20	13	0.97	77	0.005	<20	2.38	0.125	0.13	<0.1	0.49	8.3	0.2	<0.05	6	<0.5
2099711	Drill Core	18	14	0.98	105	0.007	<20	2.66	0.158	0.12	<0.1	0.16	8.7	<0.1	<0.05	6	<0.5
2099712	Drill Core	20	15	1.11	159	0.010	<20	2.27	0.148	0.11	<0.1	0.24	9.6	<0.1	<0.05	6	<0.5
2099713	Drill Core	20	11	0.84	666	0.012	<20	2.50	0.202	0.14	<0.1	0.17	8.8	<0.1	<0.05	6	<0.5
2099714	Drill Core	21	11	0.86	535	0.032	<20	2.46	0.204	0.14	<0.1	0.20	9.1	<0.1	<0.05	6	<0.5
2099715	Drill Core	18	21	1.67	207	0.061	<20	2.55	0.181	0.10	<0.1	0.12	11.7	<0.1	<0.05	7	<0.5
2099716	Drill Core	16	22	1.40	210	0.019	<20	2.60	0.187	0.12	<0.1	0.40	10.7	<0.1	<0.05	6	<0.5
2099717	Drill Core	17	20	1.27	111	0.010	<20	2.34	0.153	0.11	<0.1	0.26	9.7	<0.1	<0.05	6	0.5
2099718	Drill Core	19	13	1.03	133	0.011	<20	2.23	0.172	0.12	<0.1	0.13	8.4	<0.1	<0.05	6	<0.5
2099719	Drill Core	19	23	1.32	140	0.047	<20	2.42	0.184	0.09	<0.1	0.55	9.7	<0.1	<0.05	7	<0.5
2099720	Drill Core	17	10	0.78	54	0.006	<20	1.95	0.113	0.12	<0.1	0.51	6.2	<0.1	<0.05	6	0.6
2099721	Drill Core	13	10	0.48	38	0.003	<20	2.11	0.168	0.15	<0.1	0.06	8.4	<0.1	<0.05	4	<0.5



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Project:

Trout Property

Report Date:

November 14, 2012

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CERTIFICATE OF ANALYSIS

SMI12000494.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099722	Drill Core	4.00	<0.1	63.8	2.2	36	<0.1	12.5	15.0	1053	3.15	1.6	<0.5	1.2	192	<0.1	<0.1	<0.1	73	6.40
2099723	Drill Core	3.33	<0.1	52.2	4.0	61	0.2	11.6	17.3	743	3.72	1.8	<0.5	2.3	170	<0.1	<0.1	<0.1	94	1.80
2099724	Drill Core	1.71	0.2	39.6	4.7	55	0.1	16.5	15.3	652	3.25	0.9	<0.5	2.1	153	0.1	<0.1	<0.1	69	1.22
2099725	Drill Core	4.23	0.3	18.4	5.7	54	<0.1	6.0	9.8	581	2.73	1.7	<0.5	3.8	100	<0.1	<0.1	<0.1	54	0.87
2099726	Drill Core	4.60	0.1	39.8	4.4	57	0.1	5.3	13.6	783	3.32	1.7	<0.5	3.0	155	0.1	<0.1	<0.1	86	1.92
2099727	Drill Core	3.75	0.2	48.1	4.3	61	<0.1	8.2	15.9	712	3.65	3.0	<0.5	2.9	138	0.1	<0.1	<0.1	95	1.69
2099728	Drill Core	1.92	0.2	25.5	4.5	52	<0.1	8.9	11.5	527	3.16	1.5	<0.5	2.5	105	<0.1	<0.1	<0.1	66	1.03
2099729	Drill Core	3.96	0.3	26.3	4.6	55	<0.1	7.9	11.9	611	3.20	1.8	<0.5	2.5	94	<0.1	<0.1	<0.1	69	1.11
2099730	Drill Core	4.92	0.4	54.9	3.0	63	<0.1	5.7	16.2	1250	4.18	1.1	<0.5	2.4	161	0.1	<0.1	<0.1	135	2.44
2099731	Drill Core	1.07	0.2	60.0	3.0	67	<0.1	7.6	18.5	1057	4.51	1.9	<0.5	2.4	155	<0.1	<0.1	<0.1	139	2.02
2099732	Drill Core	2.59	0.2	53.0	2.6	57	<0.1	6.2	16.0	1280	4.07	1.9	<0.5	2.3	143	0.1	<0.1	<0.1	131	2.65
2099733	Drill Core	3.99	0.2	49.4	2.6	61	<0.1	10.9	19.2	1093	3.98	1.8	<0.5	2.1	159	<0.1	<0.1	<0.1	109	4.11
2099734	Drill Core	2.58	0.2	40.0	4.6	63	<0.1	23.3	17.4	976	3.55	5.0	<0.5	2.9	372	<0.1	<0.1	<0.1	135	2.48
2099735	Drill Core	3.01	0.1	16.6	5.1	57	<0.1	4.2	9.6	1044	2.40	1.8	<0.5	2.7	203	<0.1	<0.1	<0.1	65	3.55
2099736	Drill Core	4.95	<0.1	35.8	1.7	62	<0.1	21.4	17.7	999	3.16	0.9	<0.5	1.5	237	<0.1	<0.1	<0.1	98	5.49
2099737	Drill Core	3.65	0.2	31.9	1.7	63	<0.1	23.9	21.7	1174	3.60	1.5	<0.5	1.5	224	<0.1	<0.1	<0.1	109	5.15
2099738	Drill Core	2.99	0.1	40.6	2.5	74	<0.1	25.4	22.5	812	3.81	3.2	<0.5	1.8	228	0.3	<0.1	<0.1	109	4.01
2099739	Drill Core	5.18	0.3	35.5	8.7	125	<0.1	31.7	25.8	887	5.85	1.4	<0.5	3.4	243	<0.1	<0.1	<0.1	138	2.06
2099740	Drill Core	3.11	0.2	37.3	9.8	125	<0.1	35.5	27.9	666	5.88	2.4	<0.5	3.5	261	<0.1	<0.1	<0.1	117	2.34
2099741	Drill Core	2.77	0.3	39.8	8.7	125	<0.1	34.7	25.5	1188	5.84	2.1	<0.5	3.3	275	<0.1	<0.1	<0.1	117	2.32
2099742	Rock Pulp	0.10	2.3	23.1	2.2	40	0.2	20.6	8.7	377	2.16	4.0	0.8	0.7	37	0.1	0.2	<0.1	52	0.79
2099743	Drill Core	4.12	0.3	25.3	5.1	89	<0.1	24.0	16.1	710	3.78	<0.5	<0.5	2.0	781	0.2	<0.1	<0.1	93	1.52
2099744 Dup of 2099743	CORE DUP	N.A.	0.3	24.6	5.2	89	<0.1	25.3	16.8	737	3.86	<0.5	<0.5	2.1	792	0.2	<0.1	<0.1	94	1.57
2099745	Drill Core	3.96	0.2	11.3	5.2	79	<0.1	22.2	16.7	458	3.21	<0.5	<0.5	1.5	941	0.2	<0.1	<0.1	79	2.01
2099746	Rock Pulp	0.11	25.4	78.0	18.0	134	1.6	75.3	8.0	298	2.72	657.2	21.6	1.6	20	1.9	5.0	4.0	48	1.95
2099747	Drill Core	4.41	0.7	22.7	3.7	76	<0.1	23.5	16.9	591	3.55	<0.5	<0.5	1.5	479	<0.1	<0.1	<0.1	101	1.18
2099748	Drill Core	4.26	1.3	17.5	3.2	81	<0.1	21.8	17.6	613	3.89	<0.5	1.2	1.5	96	<0.1	0.1	<0.1	123	1.02
2099749	Rock Pulp	0.11	3.9	32.9	5.0	48	0.2	22.3	9.0	366	2.33	6.7	677.0	0.9	36	0.2	0.8	0.1	53	0.76
2099750	Drill Core	4.83	1.4	18.5	3.8	78	<0.1	22.7	17.4	583	3.96	<0.5	0.6	1.4	117	<0.1	<0.1	<0.1	126	1.04
2099751	Drill Core	1.53	1.4	27.0	4.7	85	<0.1	23.6	18.3	669	3.98	<0.5	1.8	1.2	83	0.2	<0.1	<0.1	135	1.09



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CERTIFICATE OF ANALYSIS

SMI12000494.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099722	Drill Core	12	9	0.43	42	0.003	<20	2.12	0.204	0.13	<0.1	0.11	9.2	<0.1	<0.05	4	<0.5
2099723	Drill Core	18	12	0.73	90	0.010	<20	2.23	0.194	0.16	<0.1	0.20	9.7	<0.1	<0.05	6	<0.5
2099724	Drill Core	19	15	0.85	84	0.003	<20	2.18	0.170	0.15	<0.1	0.13	6.3	<0.1	<0.05	6	<0.5
2099725	Drill Core	19	6	0.66	56	0.005	<20	1.66	0.129	0.12	<0.1	0.17	5.1	<0.1	<0.05	6	<0.5
2099726	Drill Core	21	5	0.73	72	0.017	<20	2.23	0.204	0.14	<0.1	0.25	9.9	<0.1	<0.05	6	<0.5
2099727	Drill Core	20	8	0.77	79	0.034	<20	2.44	0.216	0.16	<0.1	0.48	10.6	<0.1	<0.05	7	<0.5
2099728	Drill Core	19	8	0.68	55	0.007	<20	1.83	0.148	0.15	<0.1	0.49	5.8	<0.1	<0.05	6	<0.5
2099729	Drill Core	19	8	0.69	60	0.009	<20	1.69	0.144	0.12	<0.1	0.59	7.1	<0.1	<0.05	5	<0.5
2099730	Drill Core	20	8	0.94	170	0.129	<20	2.08	0.191	0.12	<0.1	0.76	13.6	<0.1	<0.05	6	<0.5
2099731	Drill Core	18	11	1.12	157	0.132	<20	2.23	0.207	0.11	<0.1	0.40	15.1	<0.1	<0.05	6	<0.5
2099732	Drill Core	17	10	1.01	125	0.119	<20	2.53	0.570	0.12	<0.1	0.29	13.9	<0.1	<0.05	6	<0.5
2099733	Drill Core	17	12	0.91	73	0.015	<20	2.37	0.224	0.14	<0.1	0.35	12.1	<0.1	<0.05	6	<0.5
2099734	Drill Core	20	34	1.53	271	0.006	<20	3.29	0.349	0.17	<0.1	0.16	11.4	<0.1	<0.05	7	<0.5
2099735	Drill Core	22	6	0.80	49	0.004	<20	2.38	0.285	0.12	<0.1	0.09	6.3	<0.1	<0.05	5	<0.5
2099736	Drill Core	15	31	0.78	54	0.008	<20	2.63	0.298	0.05	<0.1	<0.01	9.3	<0.1	<0.05	6	<0.5
2099737	Drill Core	16	35	0.85	48	0.010	<20	2.88	0.297	0.05	<0.1	0.06	9.2	<0.1	<0.05	7	<0.5
2099738	Drill Core	20	35	0.68	51	0.008	<20	2.94	0.326	0.06	<0.1	6.49	9.8	<0.1	<0.05	7	<0.5
2099739	Drill Core	52	50	0.39	101	0.030	<20	3.95	0.358	0.09	<0.1	0.09	14.5	<0.1	<0.05	9	<0.5
2099740	Drill Core	55	45	0.41	93	0.033	<20	4.25	0.382	0.08	<0.1	0.01	15.3	<0.1	<0.05	10	<0.5
2099741	Drill Core	50	48	0.55	87	0.024	<20	4.25	0.400	0.09	<0.1	0.02	13.7	<0.1	<0.05	10	<0.5
2099742	Rock Pulp	4	23	0.71	92	0.120	<20	1.49	0.079	0.12	7.8	0.01	4.4	<0.1	<0.05	5	<0.5
2099743	Drill Core	39	33	0.59	1046	0.161	<20	1.65	0.294	0.07	<0.1	0.02	7.8	<0.1	<0.05	5	0.6
2099744 Dup of 2099743	CORE DUP	40	34	0.62	1064	0.162	<20	1.78	0.313	0.08	<0.1	0.01	7.9	<0.1	<0.05	6	<0.5
2099745	Drill Core	37	27	0.90	1195	0.126	<20	1.49	0.343	0.08	<0.1	0.06	5.9	<0.1	<0.05	5	<0.5
2099746	Rock Pulp	2	20	0.86	26	<0.001	<20	0.25	0.002	0.17	1.5	5.24	3.0	1.9	1.82	<1	5.6
2099747	Drill Core	36	31	0.93	528	0.203	<20	1.02	0.246	0.09	<0.1	0.03	5.1	<0.1	<0.05	4	<0.5
2099748	Drill Core	37	34	0.84	84	0.280	<20	0.70	0.152	0.10	<0.1	<0.01	7.0	<0.1	<0.05	4	<0.5
2099749	Rock Pulp	4	30	0.69	92	0.112	<20	1.41	0.078	0.12	9.8	0.04	4.2	<0.1	<0.05	5	<0.5
2099750	Drill Core	36	33	0.86	104	0.273	<20	0.72	0.160	0.09	<0.1	<0.01	6.7	<0.1	<0.05	4	<0.5
2099751	Drill Core	37	36	0.72	52	0.151	<20	0.94	0.135	0.09	<0.1	2.35	7.2	<0.1	<0.05	4	<0.5



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QUALITY CONTROL REPORT

SMI12000494.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
2099706	Drill Core	3.29	<0.1	44.2	4.5	56	<0.1	9.9	16.7	474	3.01	4.8	<0.5	2.8	232	0.1	<0.1	<0.1	81	1.60	0.122
REP 2099706	QC		<0.1	47.4	4.7	59	<0.1	10.0	16.8	474	3.02	4.5	<0.5	2.9	240	0.1	<0.1	<0.1	80	1.61	0.131
2099750	Drill Core	4.83	1.4	18.5	3.8	78	<0.1	22.7	17.4	583	3.96	<0.5	0.6	1.4	117	<0.1	<0.1	<0.1	126	1.04	0.292
REP 2099750	QC		1.5	18.0	3.8	76	<0.1	21.5	17.1	570	3.87	<0.5	<0.5	1.4	115	<0.1	<0.1	<0.1	126	1.01	0.277
Core Reject Duplicates																					
2099703	Drill Core	3.29	0.1	38.3	3.3	52	<0.1	7.8	14.0	851	3.23	3.2	2.1	2.4	428	<0.1	<0.1	<0.1	93	2.08	0.121
DUP 2099703	QC	N.A.	0.1	40.9	3.2	54	<0.1	7.9	13.7	844	3.25	3.4	1.9	2.3	429	<0.1	<0.1	<0.1	93	2.05	0.118
2099737	Drill Core	3.65	0.2	31.9	1.7	63	<0.1	23.9	21.7	1174	3.60	1.5	<0.5	1.5	224	<0.1	<0.1	<0.1	109	5.15	0.187
DUP 2099737	QC	N.A.	0.1	31.0	1.8	61	<0.1	24.3	21.7	1188	3.55	1.5	<0.5	1.5	215	<0.1	<0.1	<0.1	106	5.22	0.181
Reference Materials																					
STD DS9	Standard		12.1	110.3	120.6	295	1.8	36.8	7.3	523	2.16	24.7	95.1	6.7	61	2.4	5.1	6.4	35	0.66	0.085
STD DS9	Standard		12.4	111.4	105.5	312	1.8	42.4	7.8	576	2.33	26.8	107.8	5.3	65	2.3	3.9	5.9	38	0.71	0.084
STD DS9	Standard		11.7	110.2	126.1	299	1.8	39.7	7.3	570	2.32	25.3	112.4	5.9	68	2.3	4.3	6.4	38	0.70	0.080
STD OREAS45EA	Standard		1.4	628.7	15.3	27	0.2	339.9	50.0	371	21.20	9.9	44.6	10.8	4	<0.1	0.3	0.2	265	0.03	0.030
STD OREAS45EA	Standard		1.2	665.0	11.7	29	0.3	361.3	51.8	386	20.41	7.7	51.9	8.3	<1	<0.1	0.2	0.2	288	0.03	0.026
STD OREAS45EA	Standard		1.2	624.1	13.9	28	0.3	349.7	47.9	374	20.26	6.8	48.8	9.9	<1	<0.1	0.2	0.3	283	0.04	0.026
STD OREAS45EA Expected			1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	N.A.	<0.1	40.3	6.1	47	0.3	2.8	3.8	543	1.89	0.8	1.1	5.7	63	<0.1	<0.1	0.1	34	0.44	0.074
G1-SMI	Prep Blank	N.A.	<0.1	2.9	3.2	45	<0.1	2.2	4.0	575	1.93	<0.5	1.9	5.7	58	<0.1	<0.1	<0.1	37	0.49	0.078



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www.acmelab.com

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: November 14, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000494.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
2099706	Drill Core	19	7	0.64	157	0.006	<20	2.48	0.169	0.17	<0.1	0.61	10.4	<0.1	<0.05	7	<0.5	<0.2
REP 2099706	QC	20	7	0.64	161	0.006	<20	2.45	0.169	0.16	<0.1	0.58	10.2	<0.1	<0.05	7	<0.5	<0.2
2099750	Drill Core	36	33	0.86	104	0.273	<20	0.72	0.160	0.09	<0.1	<0.01	6.7	<0.1	<0.05	4	<0.5	<0.2
REP 2099750	QC	36	33	0.85	103	0.255	<20	0.71	0.158	0.09	<0.1	<0.01	6.8	<0.1	<0.05	3	<0.5	<0.2
Core Reject Duplicates																		
2099703	Drill Core	16	7	0.96	419	0.008	<20	2.52	0.165	0.13	<0.1	0.19	10.3	<0.1	<0.05	6	<0.5	<0.2
DUP 2099703	QC	15	7	0.96	416	0.008	<20	2.51	0.164	0.13	<0.1	0.31	10.2	<0.1	<0.05	6	<0.5	<0.2
2099737	Drill Core	16	35	0.85	48	0.010	<20	2.88	0.297	0.05	<0.1	0.06	9.2	<0.1	<0.05	7	<0.5	<0.2
DUP 2099737	QC	16	34	0.84	49	0.009	<20	2.84	0.299	0.05	<0.1	0.04	9.2	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	11	104	0.58	296	0.100	<20	0.87	0.079	0.38	2.3	0.30	2.2	5.1	0.16	4	4.7	4.8
STD DS9	Standard	11	118	0.62	303	0.111	<20	0.94	0.078	0.39	2.4	0.19	2.4	5.1	0.17	4	4.8	5.1
STD DS9	Standard	11	118	0.61	310	0.105	<20	0.92	0.078	0.39	2.5	0.20	2.1	5.4	0.17	5	5.6	5.2
STD OREAS45EA	Standard	6	738	0.10	146	0.087	<20	2.74	0.022	0.05	<0.1	<0.01	73.6	<0.1	<0.05	11	<0.5	<0.2
STD OREAS45EA	Standard	6	856	0.09	139	0.091	<20	3.00	0.014	0.05	<0.1	<0.01	69.8	<0.1	<0.05	11	1.1	<0.2
STD OREAS45EA	Standard	6	745	0.09	140	0.082	<20	2.82	0.019	0.05	<0.1	<0.01	68.8	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	11	8	0.48	138	0.117	<20	0.84	0.074	0.46	<0.1	<0.01	1.9	0.3	<0.05	5	<0.5	0.3
G1-SMI	Prep Blank	11	4	0.51	157	0.122	<20	0.90	0.076	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 22, 2012
Report Date: November 08, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS

SMI12000495.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 98

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	94	Crush, split and pulverize 250 g rock to 200 mesh			SMI
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN
1DX1	98	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000495.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
G1-SMI	Prep Blank	N.A.	<0.1	2.6	2.9	49	<0.1	3.4	4.1	617	1.88	0.6	1.4	4.8	58	<0.1	<0.1	<0.1	33	0.49
G1-SMI	Prep Blank	N.A.	0.1	2.5	3.2	49	<0.1	3.8	4.4	602	1.89	<0.5	<0.5	5.5	51	<0.1	<0.1	<0.1	34	0.44
2099596	Drill Core	3.64	<0.1	49.5	5.2	80	<0.1	27.6	13.2	493	3.74	0.9	0.8	4.2	318	<0.1	<0.1	<0.1	27	1.94
2099597	Drill Core	4.27	<0.1	54.4	4.2	51	<0.1	17.5	10.8	440	2.38	<0.5	<0.5	3.8	285	<0.1	<0.1	<0.1	26	1.78
2099598	Drill Core	4.05	<0.1	47.5	4.3	59	<0.1	24.1	11.3	502	3.01	1.0	<0.5	3.7	244	<0.1	0.2	<0.1	35	1.68
2099599	Drill Core	3.56	0.1	45.8	5.2	50	<0.1	22.9	14.4	460	2.74	1.9	<0.5	3.3	242	<0.1	0.1	<0.1	27	1.23
2099600	Drill Core	3.58	0.1	53.1	6.0	58	<0.1	31.2	18.2	402	3.31	10.1	<0.5	3.6	274	<0.1	0.3	<0.1	33	1.18
2099601	Drill Core	4.30	0.4	53.6	9.2	50	<0.1	29.7	15.4	491	3.33	16.3	<0.5	3.5	218	0.2	1.3	<0.1	44	2.12
2099602	Drill Core	4.74	0.5	45.3	7.0	51	<0.1	36.2	18.4	804	3.20	3.2	<0.5	3.1	239	<0.1	1.2	<0.1	57	3.45
2099603	Drill Core	4.54	0.4	51.2	8.6	54	<0.1	30.9	16.5	289	3.10	2.9	<0.5	3.3	197	<0.1	0.9	<0.1	46	2.00
2099604	Drill Core	4.95	0.4	45.9	7.7	55	<0.1	34.4	18.0	592	3.24	4.7	<0.5	3.2	249	<0.1	0.8	<0.1	57	3.06
2099605	Drill Core	4.37	0.2	47.9	6.3	69	<0.1	40.8	20.8	735	4.06	2.3	<0.5	3.3	266	<0.1	0.3	<0.1	55	3.59
2099606	Drill Core	2.62	<0.1	43.4	6.0	34	3.6	17.9	7.6	847	1.77	1.0	2.8	3.6	310	<0.1	0.1	<0.1	17	4.23
2099607	Drill Core	3.27	<0.1	50.8	4.5	61	0.5	28.6	11.4	598	2.85	1.3	<0.5	3.9	293	<0.1	0.3	<0.1	23	2.54
2099608	Drill Core	3.72	0.3	32.6	7.3	68	0.7	25.4	11.6	862	3.43	32.4	<0.5	2.8	237	0.1	0.7	<0.1	28	3.75
2099609	Drill Core	3.81	<0.1	46.5	7.4	60	0.7	26.7	15.5	579	3.18	57.9	<0.5	2.7	270	0.1	0.5	<0.1	31	2.38
2099610	Drill Core	3.67	0.1	48.3	4.9	72	0.1	26.2	16.2	587	3.51	1.8	1.3	2.9	273	<0.1	0.1	<0.1	39	2.20
2099611	Drill Core	3.87	0.2	45.0	5.3	63	0.3	27.8	18.0	1479	3.62	1.3	2.4	3.0	332	<0.1	0.1	<0.1	42	3.60
2099612	Drill Core	3.84	0.2	53.1	6.2	51	0.1	22.6	16.2	2185	3.67	2.7	<0.5	2.6	318	0.2	0.4	<0.1	46	4.34
2099613	Drill Core	4.40	1.3	13.7	26.3	95	0.4	3.6	8.4	399	1.96	22.4	4.5	2.0	102	0.8	0.2	<0.1	5	0.37
2099614	Drill Core	2.45	0.1	9.5	13.6	54	0.1	1.9	6.2	797	1.97	6.4	2.4	2.2	145	<0.1	<0.1	<0.1	4	0.43
2099615	Drill Core	3.96	0.5	6.6	22.1	70	0.2	1.7	6.1	662	1.85	14.8	2.1	2.2	154	0.4	<0.1	<0.1	5	0.45
2099616	Drill Core	4.39	<0.1	6.4	14.8	73	0.1	1.4	5.2	845	2.29	1.0	<0.5	1.9	128	<0.1	<0.1	<0.1	6	0.44
2099617	Drill Core	4.30	<0.1	9.1	10.0	60	0.1	1.4	5.6	668	1.95	3.6	<0.5	1.8	118	<0.1	0.1	<0.1	6	0.43
2099618	Drill Core	4.01	1.3	10.0	25.9	89	0.2	2.7	8.2	1137	2.92	5.9	<0.5	1.8	142	0.9	0.1	<0.1	10	0.52
2099619	Drill Core	4.64	0.5	8.1	11.1	64	0.2	1.6	6.1	1053	2.16	6.7	<0.5	2.0	128	0.1	0.1	<0.1	6	0.56
2099620	Drill Core	4.22	1.6	8.6	35.6	120	1.1	2.6	7.7	1251	2.58	78.0	8.0	1.9	133	0.8	0.2	<0.1	4	0.98
2099621	Drill Core	3.95	0.2	9.0	14.9	76	0.3	1.9	5.6	1276	2.26	29.6	0.6	1.8	140	0.3	<0.1	<0.1	8	0.54
2099622	Drill Core	3.75	0.1	8.8	28.2	79	0.5	1.4	6.0	1781	2.34	46.3	5.3	1.6	154	0.3	0.1	<0.1	9	1.27
2099623	Drill Core	0.87	0.2	7.5	25.1	85	0.7	1.6	6.0	2928	2.57	40.9	3.0	1.8	159	0.3	0.1	<0.1	7	2.39



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	9	7	0.56	242	0.127	<20	1.06	0.111	0.51	<0.1	<0.01	2.4	0.3	<0.05	6	0.6
G1-SMI	Prep Blank	9	10	0.56	221	0.128	<20	0.99	0.084	0.51	<0.1	0.01	2.6	0.3	<0.05	5	<0.5
2099596	Drill Core	24	27	0.45	1399	0.002	<20	1.42	0.067	0.27	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5
2099597	Drill Core	21	23	0.25	1360	0.002	<20	0.96	0.061	0.31	<0.1	<0.01	3.7	<0.1	<0.05	3	<0.5
2099598	Drill Core	22	33	0.24	499	0.003	<20	0.90	0.060	0.28	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5
2099599	Drill Core	20	23	0.26	413	0.003	<20	0.97	0.067	0.26	0.1	<0.01	3.3	<0.1	<0.05	3	<0.5
2099600	Drill Core	23	30	0.33	128	0.005	<20	1.14	0.080	0.29	0.1	<0.01	3.1	<0.1	0.06	3	<0.5
2099601	Drill Core	24	41	0.23	526	0.007	<20	0.89	0.070	0.30	<0.1	0.14	3.1	0.1	0.22	4	<0.5
2099602	Drill Core	22	46	0.21	304	0.012	<20	0.90	0.066	0.28	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5
2099603	Drill Core	23	45	0.21	544	0.009	<20	0.88	0.064	0.35	<0.1	0.08	2.4	0.1	<0.05	3	<0.5
2099604	Drill Core	23	48	0.25	346	0.009	<20	0.99	0.072	0.29	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5
2099605	Drill Core	25	53	0.44	484	0.006	<20	1.38	0.075	0.24	<0.1	<0.01	4.3	<0.1	<0.05	6	<0.5
2099606	Drill Core	23	16	0.22	1796	0.004	<20	0.84	0.081	0.34	1.0	<0.01	3.8	<0.1	<0.05	3	<0.5
2099607	Drill Core	23	23	0.37	473	0.005	<20	1.22	0.090	0.36	<0.1	<0.01	3.4	<0.1	<0.05	3	<0.5
2099608	Drill Core	21	39	0.27	598	0.011	<20	0.95	0.065	0.34	0.7	0.07	4.4	0.1	0.26	3	<0.5
2099609	Drill Core	21	31	0.32	516	0.003	<20	0.96	0.079	0.30	<0.1	0.15	4.0	0.3	0.28	3	<0.5
2099610	Drill Core	22	32	0.32	696	0.005	<20	1.19	0.077	0.37	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5
2099611	Drill Core	22	34	0.32	394	0.005	<20	1.10	0.079	0.32	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5
2099612	Drill Core	21	26	0.26	561	0.010	<20	0.95	0.070	0.31	<0.1	<0.01	4.1	<0.1	<0.05	4	0.8
2099613	Drill Core	12	1	0.11	163	0.001	<20	0.76	0.039	0.30	<0.1	0.03	1.3	0.2	0.88	2	<0.5
2099614	Drill Core	13	<1	0.14	168	0.001	<20	0.74	0.056	0.26	<0.1	0.03	1.1	0.2	0.26	2	<0.5
2099615	Drill Core	13	<1	0.10	274	<0.001	<20	0.70	0.068	0.25	<0.1	0.05	1.3	0.2	0.52	2	<0.5
2099616	Drill Core	9	<1	0.13	84	0.001	<20	0.87	0.050	0.28	<0.1	<0.01	1.4	0.1	0.18	2	<0.5
2099617	Drill Core	9	1	0.11	82	0.001	<20	0.89	0.045	0.28	<0.1	0.03	1.2	0.1	0.12	2	<0.5
2099618	Drill Core	13	<1	0.14	105	0.001	<20	0.88	0.052	0.29	<0.1	0.02	1.7	0.1	0.52	2	<0.5
2099619	Drill Core	13	1	0.12	106	0.001	<20	0.80	0.047	0.27	<0.1	0.02	1.2	0.1	0.43	3	<0.5
2099620	Drill Core	10	<1	0.14	86	0.001	<20	0.73	0.045	0.24	<0.1	0.03	1.2	0.2	1.61	2	<0.5
2099621	Drill Core	14	<1	0.19	158	0.001	<20	1.08	0.055	0.31	<0.1	0.03	1.5	0.2	0.35	3	<0.5
2099622	Drill Core	13	1	0.26	282	0.001	<20	0.98	0.049	0.33	0.2	0.02	2.1	0.2	0.56	3	<0.5
2099623	Drill Core	13	1	0.37	116	0.001	<20	0.95	0.033	0.31	<0.1	0.03	1.8	0.2	0.75	3	<0.5



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Project:

Trout Property

Report Date:

November 08, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000495.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2099624	Drill Core	3.31	2.5	12.6	63.7	180	1.5	3.0	8.9	1504	2.35	93.7	8.9	1.8	90	1.5	0.5	<0.1	4	0.73	0.109
2099625	Drill Core	4.75	<0.1	8.8	11.8	54	0.2	1.2	4.6	946	1.87	18.2	<0.5	2.1	94	<0.1	0.2	<0.1	6	0.36	0.119
2099626	Drill Core	3.56	28.7	18.5	126.1	237	1.2	2.7	7.5	1500	2.67	59.9	10.4	1.5	138	2.2	0.5	0.2	4	0.96	0.104
2099627	Drill Core	3.86	9.1	33.1	102.2	249	0.8	1.6	7.3	1044	2.44	26.5	7.6	1.7	159	2.4	0.1	0.1	5	0.87	0.113
2099628	Drill Core	4.53	12.1	14.8	35.2	74	0.6	2.2	6.8	1056	2.04	19.4	1.4	1.8	210	0.5	0.2	<0.1	6	0.99	0.108
2099629	Drill Core	4.29	42.8	35.5	98.6	252	0.8	2.2	7.1	1148	2.65	33.5	12.3	1.6	161	2.5	1.6	0.1	5	0.77	0.096
2099630	Drill Core	4.64	11.7	24.0	59.0	162	0.6	2.2	7.1	839	2.07	36.8	9.7	2.1	99	1.3	0.6	<0.1	5	0.46	0.110
2099631	Drill Core	4.56	24.2	17.2	73.3	124	0.8	2.2	7.7	354	2.24	32.4	10.7	1.4	80	0.9	0.8	0.2	3	0.30	0.097
2099632	Drill Core	4.00	20.2	22.1	60.9	106	0.8	1.7	6.4	218	1.85	36.0	21.3	1.4	68	0.8	0.6	0.1	3	0.28	0.096
2099633	Drill Core	4.28	12.5	27.8	38.8	123	0.7	2.8	8.0	961	2.57	89.9	18.1	1.5	83	0.8	0.8	0.1	6	0.42	0.106
2099634	Drill Core	4.70	11.6	22.0	78.7	149	0.7	2.3	7.9	1179	2.66	98.8	19.8	1.3	115	1.1	0.7	0.1	4	0.79	0.099
2099635	Drill Core	4.35	16.1	27.5	51.6	133	0.7	2.0	7.2	2010	2.19	46.2	19.8	1.4	116	0.7	0.7	<0.1	4	1.43	0.105
2099636	Drill Core	4.24	11.0	36.8	92.2	326	0.7	2.5	8.1	2538	2.07	53.9	15.8	1.3	137	3.1	0.7	<0.1	4	2.01	0.102
2099637	Drill Core	4.17	7.1	21.7	29.1	65	0.5	2.3	7.0	2090	1.80	39.1	14.3	1.5	136	0.1	0.6	<0.1	5	1.46	0.112
2099638	Drill Core	4.11	9.1	26.5	28.1	55	0.7	2.8	8.7	2047	2.61	76.1	24.1	1.3	194	0.2	0.5	<0.1	6	1.35	0.109
2099639	Drill Core	4.05	2.2	9.8	15.0	67	0.4	2.3	6.4	1255	1.76	28.2	10.6	1.4	86	0.1	0.4	<0.1	5	0.72	0.105
2099640	Drill Core	4.34	3.7	20.9	18.4	80	0.5	2.8	9.3	1749	2.49	38.8	13.0	1.4	114	0.2	0.5	<0.1	7	1.03	0.120
2099641	Drill Core	4.67	5.4	15.2	33.4	153	0.5	1.9	7.1	2522	2.73	47.8	13.4	1.6	284	0.7	0.3	<0.1	9	1.66	0.101
2099642	Drill Core	4.47	2.9	16.8	14.0	51	0.4	1.8	6.6	2097	2.20	40.5	7.9	1.5	137	0.1	0.4	<0.1	6	1.13	0.100
2099643	Drill Core	4.61	4.1	13.7	23.6	48	0.5	1.8	6.9	1357	2.22	47.8	7.5	1.4	157	0.2	0.4	<0.1	5	0.95	0.107
2099644	Drill Core	4.47	5.3	17.4	14.6	45	0.5	2.0	7.2	1348	2.28	40.3	9.0	1.6	169	0.1	0.3	<0.1	7	0.88	0.105
2099645	Drill Core	4.86	2.6	10.5	33.5	89	0.6	1.9	6.0	1340	2.25	61.4	5.6	1.5	129	0.5	0.3	<0.1	7	0.85	0.107
2099646	Drill Core	4.51	3.7	19.3	35.0	80	0.7	2.3	6.8	1440	2.33	114.9	7.7	1.5	169	0.7	0.3	0.1	6	1.15	0.106
2099647	Drill Core	4.97	8.4	18.9	128.8	285	1.3	2.0	6.9	2315	2.61	58.2	27.7	1.3	232	2.9	0.2	0.1	6	1.64	0.106
2099648	Drill Core	4.98	1.5	9.9	34.7	85	0.5	1.6	6.4	2507	2.34	35.8	12.6	1.6	245	0.5	<0.1	<0.1	8	1.92	0.114
2099649	Drill Core	3.79	2.2	17.9	60.8	129	1.0	2.3	7.7	1969	2.75	10.2	15.7	1.3	157	1.2	<0.1	0.8	5	3.05	0.114
2099650	Drill Core	3.36	1.8	253.8	169.3	297	4.7	2.0	7.7	1434	2.72	11.4	96.6	1.2	209	3.0	0.2	4.6	8	1.68	0.111
2099651	Drill Core	4.71	1.8	11.9	227.4	526	2.5	2.0	7.1	2379	3.15	51.3	17.1	1.4	202	5.6	<0.1	1.0	7	3.10	0.103
2099652	Drill Core	4.30	2.2	14.7	225.4	475	1.3	2.1	6.6	2293	2.89	24.0	15.3	1.5	216	5.2	<0.1	1.1	6	3.26	0.099
2099653	Drill Core	4.52	0.9	13.6	86.2	322	0.7	1.9	7.5	1896	2.54	36.6	7.1	1.6	166	3.1	<0.1	0.5	7	2.85	0.116



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099624	Drill Core	10	<1	0.15	74	0.001	<20	0.74	0.029	0.30	<0.1	0.09	1.2	0.4	1.47	2	<0.5
2099625	Drill Core	13	<1	0.15	574	0.001	<20	1.06	0.034	0.39	<0.1	0.46	1.4	0.3	0.31	3	<0.5
2099626	Drill Core	7	<1	0.13	68	0.001	<20	0.55	0.038	0.27	<0.1	0.03	1.8	0.4	2.36	2	0.6
2099627	Drill Core	8	1	0.12	74	0.001	<20	0.65	0.042	0.30	<0.1	0.03	1.3	0.3	2.04	2	<0.5
2099628	Drill Core	9	<1	0.16	109	0.001	<20	0.68	0.038	0.28	<0.1	<0.01	1.2	0.5	1.36	2	<0.5
2099629	Drill Core	7	<1	0.12	113	<0.001	<20	0.54	0.035	0.27	<0.1	0.03	0.8	0.3	2.14	1	0.6
2099630	Drill Core	10	1	0.13	236	<0.001	<20	0.70	0.037	0.29	<0.1	0.03	0.9	2.4	1.17	2	<0.5
2099631	Drill Core	7	<1	0.07	179	<0.001	<20	0.43	0.032	0.31	<0.1	<0.01	0.7	0.3	2.08	1	<0.5
2099632	Drill Core	6	<1	0.07	61	<0.001	<20	0.51	0.030	0.33	0.1	0.01	0.6	0.3	1.59	1	0.6
2099633	Drill Core	7	<1	0.10	74	<0.001	<20	0.62	0.033	0.33	0.1	0.03	1.0	1.2	1.63	1	<0.5
2099634	Drill Core	5	<1	0.09	59	<0.001	<20	0.48	0.030	0.31	0.1	0.03	1.5	0.3	2.13	1	<0.5
2099635	Drill Core	5	<1	0.09	63	<0.001	<20	0.51	0.031	0.31	<0.1	<0.01	0.9	0.2	1.64	1	<0.5
2099636	Drill Core	5	<1	0.08	60	<0.001	<20	0.48	0.032	0.29	<0.1	0.03	1.1	0.8	1.65	1	<0.5
2099637	Drill Core	7	<1	0.11	66	<0.001	<20	0.54	0.033	0.29	<0.1	0.04	1.2	4.1	1.02	1	<0.5
2099638	Drill Core	7	<1	0.14	93	<0.001	<20	0.52	0.036	0.29	<0.1	0.07	1.6	1.8	1.76	1	<0.5
2099639	Drill Core	6	<1	0.14	59	<0.001	<20	0.72	0.033	0.33	<0.1	0.02	1.1	2.9	0.55	2	<0.5
2099640	Drill Core	7	<1	0.17	67	<0.001	<20	0.77	0.035	0.32	<0.1	0.02	1.5	2.1	1.01	2	<0.5
2099641	Drill Core	7	2	0.18	67	<0.001	<20	0.64	0.036	0.33	<0.1	0.03	2.5	0.6	1.59	2	<0.5
2099642	Drill Core	6	1	0.16	63	<0.001	<20	0.65	0.033	0.32	<0.1	0.01	1.8	1.4	0.91	2	<0.5
2099643	Drill Core	6	1	0.14	68	<0.001	<20	0.51	0.032	0.30	<0.1	0.04	1.8	0.5	1.51	1	<0.5
2099644	Drill Core	6	1	0.15	69	<0.001	<20	0.60	0.036	0.32	<0.1	0.02	1.8	0.7	1.34	2	<0.5
2099645	Drill Core	6	1	0.18	64	<0.001	<20	0.63	0.033	0.28	<0.1	0.03	1.5	0.3	0.96	2	<0.5
2099646	Drill Core	6	2	0.19	70	<0.001	<20	0.61	0.034	0.29	<0.1	0.02	1.3	0.5	1.34	2	0.8
2099647	Drill Core	6	1	0.20	66	<0.001	<20	0.59	0.031	0.29	<0.1	0.07	1.5	0.2	1.76	1	0.6
2099648	Drill Core	10	1	0.28	80	<0.001	<20	0.80	0.034	0.31	<0.1	0.03	1.8	0.2	1.07	2	0.7
2099649	Drill Core	7	<1	0.24	146	<0.001	<20	0.64	0.035	0.27	<0.1	0.02	1.7	0.1	2.47	1	<0.5
2099650	Drill Core	6	<1	0.33	150	<0.001	<20	0.70	0.032	0.25	<0.1	0.02	1.7	0.1	2.33	2	<0.5
2099651	Drill Core	8	<1	0.42	151	<0.001	<20	0.85	0.039	0.24	<0.1	0.01	1.8	<0.1	2.47	2	<0.5
2099652	Drill Core	9	<1	0.60	151	<0.001	<20	0.85	0.033	0.25	<0.1	0.02	1.4	0.1	2.58	2	1.0
2099653	Drill Core	8	<1	0.39	185	<0.001	<20	0.87	0.044	0.25	<0.1	0.02	1.4	0.1	2.04	2	<0.5



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Project:

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099654	Drill Core	4.94	0.8	13.0	82.9	183	0.7	1.5	5.3	1304	2.50	10.1	6.4	1.8	103	1.7	<0.1	0.5	<2	2.93
2099655	Drill Core	3.93	0.5	8.1	77.5	151	0.7	1.6	4.8	842	2.67	17.9	7.3	2.1	86	1.7	0.1	0.8	<2	2.38
2099656 Dup of 2099655	CORE DUP	N.A.	0.5	11.9	80.3	156	0.8	1.8	5.3	960	2.97	19.1	4.2	2.2	93	1.8	0.2	0.8	<2	2.58
2099657	Drill Core	3.67	2.2	12.3	38.2	75	0.5	1.7	5.1	615	2.27	17.6	7.1	1.7	91	0.5	<0.1	0.9	<2	1.49
2099658	Rock Pulp	0.11	4.3	32.7	4.9	47	0.3	24.8	9.0	383	2.41	5.9	472.8	0.8	36	0.2	0.7	<0.1	55	0.78
2099659	Drill Core	4.47	6.7	22.1	12.6	19	0.4	2.4	6.3	492	2.83	7.4	21.5	1.9	67	0.1	<0.1	1.9	<2	0.91
2099660	Drill Core	3.97	10.9	26.0	27.9	49	0.5	2.4	6.2	529	2.80	27.8	21.3	1.6	72	0.3	0.2	1.7	<2	0.89
2099661	Drill Core	3.02	10.8	33.6	23.0	44	0.6	2.0	5.5	200	2.60	29.6	21.9	1.7	64	0.2	0.2	1.6	<2	0.48
2099662	Rock Pulp	0.11	2.1	22.2	2.5	42	0.2	20.4	8.2	371	2.16	3.9	1.7	0.9	36	0.2	0.2	<0.1	53	0.77
2099663	Drill Core	4.20	4.5	16.3	29.5	65	0.8	4.7	7.1	545	2.91	24.8	14.4	1.6	72	0.4	0.2	1.3	<2	1.05
2099664	Drill Core	3.70	2.8	9.0	23.4	35	0.8	1.6	4.9	674	2.47	15.7	24.0	1.7	70	0.3	<0.1	1.5	<2	1.09
2099665	Drill Core	5.24	0.7	10.4	39.5	106	0.7	1.3	4.6	2197	2.02	8.3	14.8	1.4	130	0.8	<0.1	1.0	<2	2.97
2099666	Drill Core	4.20	0.9	12.5	54.3	169	1.0	1.5	4.7	976	2.34	6.1	24.9	1.6	95	1.7	<0.1	1.2	<2	1.52
2099667	Drill Core	4.50	0.4	23.7	27.0	110	0.7	1.3	5.1	755	2.00	6.3	15.7	1.6	93	1.0	0.1	1.1	<2	1.50
2099668	Drill Core	4.38	0.4	9.8	59.9	174	0.7	1.8	4.8	2273	2.05	7.5	7.7	1.4	158	1.7	<0.1	1.1	<2	4.27
2099669	Drill Core	4.49	0.9	7.6	61.3	158	0.9	1.8	5.6	1210	2.41	8.9	7.9	1.4	143	1.4	<0.1	1.5	<2	2.41
2099670	Drill Core	4.16	0.6	7.5	37.2	51	0.9	1.5	4.9	1335	2.47	14.5	3.7	1.6	167	0.3	<0.1	1.1	<2	3.04
2099671	Rock Pulp	0.11	25.2	73.7	20.4	132	1.6	70.3	7.6	297	2.77	697.1	31.9	1.9	28	1.9	8.5	4.2	52	2.02
2099672	Drill Core	4.72	0.8	11.0	57.2	129	0.9	2.0	6.2	714	2.46	8.3	<0.5	2.0	131	0.7	<0.1	1.3	3	1.35
2099673	Drill Core	4.70	1.0	7.0	58.2	203	0.8	1.7	5.4	1229	2.44	3.4	1.1	2.4	183	1.7	<0.1	1.1	3	2.59
2099674	Drill Core	4.22	1.7	23.6	51.2	119	0.8	5.5	9.2	1053	2.88	6.2	3.8	2.0	153	0.8	<0.1	1.2	6	1.59
2099675	Drill Core	4.84	1.6	30.2	38.1	131	0.8	22.5	18.2	1968	4.09	15.5	3.5	1.5	204	0.6	0.2	1.5	24	3.32
2099676	Drill Core	4.46	2.4	22.2	52.7	228	0.8	14.1	14.7	1545	3.75	12.6	3.7	1.7	162	1.7	<0.1	1.1	15	2.27
2099677	Drill Core	5.19	2.7	32.7	70.3	182	1.1	14.3	15.3	1380	4.39	8.3	3.7	1.2	134	1.4	0.1	1.7	15	1.97
2099678	Drill Core	4.86	1.1	60.6	36.7	67	0.8	6.7	15.1	1227	4.76	3.8	2.1	0.9	94	0.3	0.2	3.5	17	2.35
2099679	Drill Core	4.45	1.1	58.8	77.1	146	1.6	3.1	7.4	2490	2.95	21.2	10.7	1.0	185	0.8	0.1	3.1	10	4.97
2099680	Drill Core	3.63	1.2	40.0	43.2	224	1.2	4.1	9.7	1680	3.31	23.5	13.2	1.2	142	1.8	<0.1	1.6	14	2.88
2099681	Drill Core	5.08	0.8	56.9	52.4	187	1.6	10.3	14.8	2144	4.45	9.6	19.7	1.2	149	1.3	<0.1	1.8	26	3.43
2099682	Drill Core	4.62	1.0	34.2	70.1	415	1.8	12.7	17.8	1519	4.47	19.1	30.2	1.2	114	3.4	<0.1	1.8	20	2.67
2099683	Drill Core	4.34	0.9	42.7	108.5	468	1.6	12.5	16.3	1824	4.46	15.0	21.3	1.3	164	4.3	<0.1	2.3	21	3.59



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099654	Drill Core	7	<1	0.16	124	<0.001	<20	0.47	0.022	0.27	<0.1	0.01	0.9	0.2	2.69	<1	<0.5
2099655	Drill Core	5	<1	0.14	73	<0.001	<20	0.41	0.016	0.27	<0.1	<0.01	0.6	0.1	3.04	<1	1.1
2099656 Dup of 2099655	CORE DUP	5	<1	0.14	78	<0.001	<20	0.40	0.018	0.29	<0.1	<0.01	0.7	0.1	3.38	<1	0.9
2099657	Drill Core	6	<1	0.10	63	<0.001	<20	0.37	0.027	0.29	<0.1	<0.01	0.6	0.1	2.59	<1	<0.5
2099658	Rock Pulp	4	30	0.70	90	0.104	<20	1.47	0.082	0.13	10.3	0.05	4.5	<0.1	<0.05	5	<0.5
2099659	Drill Core	8	1	0.07	88	<0.001	<20	0.38	0.023	0.30	0.2	<0.01	0.7	0.2	3.17	<1	0.7
2099660	Drill Core	6	<1	0.06	64	<0.001	<20	0.37	0.025	0.28	0.1	<0.01	0.7	0.2	3.18	<1	0.9
2099661	Drill Core	6	<1	0.07	72	<0.001	<20	0.41	0.027	0.31	0.1	<0.01	0.7	0.2	2.96	<1	0.8
2099662	Rock Pulp	4	24	0.70	94	0.098	<20	1.46	0.085	0.13	8.5	0.01	4.1	<0.1	<0.05	4	<0.5
2099663	Drill Core	4	1	0.07	70	<0.001	<20	0.39	0.023	0.31	<0.1	<0.01	0.8	0.2	3.31	<1	1.5
2099664	Drill Core	4	<1	0.06	82	<0.001	<20	0.36	0.025	0.28	<0.1	<0.01	0.6	0.2	2.84	<1	0.9
2099665	Drill Core	4	<1	0.07	113	<0.001	<20	0.34	0.026	0.24	<0.1	<0.01	0.7	0.1	2.30	<1	0.7
2099666	Drill Core	4	<1	0.07	62	<0.001	<20	0.35	0.029	0.26	<0.1	0.02	0.8	0.1	2.67	<1	0.7
2099667	Drill Core	4	<1	0.07	89	<0.001	<20	0.35	0.029	0.26	<0.1	0.01	0.6	0.1	2.23	<1	<0.5
2099668	Drill Core	5	<1	0.15	162	<0.001	<20	0.42	0.024	0.28	<0.1	0.02	0.8	0.1	2.21	<1	<0.5
2099669	Drill Core	5	<1	0.25	110	<0.001	<20	0.48	0.029	0.25	<0.1	0.01	0.8	0.1	2.68	<1	<0.5
2099670	Drill Core	5	1	0.41	130	<0.001	<20	0.67	0.032	0.25	<0.1	<0.01	0.9	<0.1	2.64	1	0.5
2099671	Rock Pulp	2	20	0.87	114	0.001	<20	0.30	0.002	0.19	1.8	5.79	3.0	2.3	1.94	1	5.8
2099672	Drill Core	11	<1	0.48	130	<0.001	<20	0.74	0.041	0.24	<0.1	0.01	0.8	<0.1	2.67	2	0.8
2099673	Drill Core	14	<1	0.66	126	<0.001	<20	0.77	0.045	0.24	<0.1	0.01	1.1	<0.1	2.57	1	0.8
2099674	Drill Core	12	2	0.64	109	<0.001	<20	0.89	0.046	0.23	<0.1	<0.01	1.4	0.1	3.01	2	1.7
2099675	Drill Core	15	10	1.01	119	0.001	<20	1.45	0.042	0.36	<0.1	<0.01	4.2	0.2	4.17	2	3.7
2099676	Drill Core	15	3	0.86	108	<0.001	<20	1.33	0.035	0.33	<0.1	0.02	2.6	0.2	4.04	2	3.1
2099677	Drill Core	11	3	0.73	98	0.001	<20	1.32	0.029	0.31	<0.1	0.01	2.6	0.2	4.87	2	9.8
2099678	Drill Core	8	1	0.71	93	0.003	<20	1.24	0.021	0.41	<0.1	<0.01	2.1	0.3	5.39	2	6.5
2099679	Drill Core	11	<1	1.04	87	<0.001	<20	1.58	0.026	0.26	<0.1	0.02	1.6	0.3	2.97	3	3.0
2099680	Drill Core	13	1	0.98	95	0.001	<20	1.70	0.033	0.26	0.1	0.01	2.4	0.2	3.24	3	2.3
2099681	Drill Core	9	5	1.11	90	0.002	<20	1.72	0.029	0.27	<0.1	<0.01	4.4	0.2	4.52	3	4.9
2099682	Drill Core	6	4	0.87	108	0.001	<20	1.41	0.024	0.33	<0.1	0.01	3.2	0.2	4.87	2	3.0
2099683	Drill Core	11	4	0.86	109	0.001	<20	1.43	0.028	0.33	<0.1	<0.01	2.6	0.3	4.76	2	2.6



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CERTIFICATE OF ANALYSIS

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	Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099684	Drill Core	5.02	1.4	40.3	96.3	222	1.2	11.7	17.2	1489	4.13	4.3	11.8	1.2	138	2.0	<0.1	1.9	19	2.64
2099685	Drill Core	4.76	1.5	80.3	142.4	279	2.7	11.1	13.8	2965	3.29	21.8	56.7	1.2	242	2.8	0.1	2.4	26	6.04
2099686	Drill Core	4.80	1.7	76.4	46.5	151	1.6	13.4	15.6	2376	3.67	38.4	37.6	1.7	191	1.2	0.1	1.7	32	4.72
2099687	Drill Core	4.79	1.3	49.3	41.0	121	0.8	14.1	20.3	1887	4.64	9.5	14.8	1.2	146	0.9	<0.1	1.5	36	2.51
2099688	Drill Core	4.46	0.9	118.8	54.2	210	0.9	11.0	19.3	2126	5.79	8.5	9.7	0.5	104	1.5	0.1	1.8	65	2.17
2099689	Drill Core	5.08	0.5	129.3	66.0	234	0.8	10.1	22.5	1831	5.29	9.0	8.2	0.5	81	2.0	0.1	1.5	79	1.80
2099690	Drill Core	3.85	0.7	26.9	83.3	189	1.2	24.9	28.3	1351	4.15	7.5	18.4	0.7	99	1.9	<0.1	1.8	24	2.30
2099691	Drill Core	3.64	0.8	23.1	45.5	104	0.8	26.8	23.7	1649	5.41	10.0	9.9	0.5	113	0.9	<0.1	1.3	37	2.61
2099692	Drill Core	3.24	0.7	41.2	35.7	72	0.6	24.6	24.1	1571	4.98	9.3	11.4	0.5	164	0.4	<0.1	1.2	35	3.10
2099693	Drill Core	2.25	1.5	35.1	48.3	97	0.9	27.9	23.9	1586	5.88	23.8	10.7	0.6	152	0.8	0.1	1.5	22	3.46



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CERTIFICATE OF ANALYSIS

SMI12000495.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099684	Drill Core	13	4	0.80	90	<0.001	<20	1.51	0.028	0.25	<0.1	<0.01	2.9	0.2	4.48	2	3.3
2099685	Drill Core	12	6	1.07	78	<0.001	<20	1.61	0.024	0.19	<0.1	0.01	4.3	0.1	3.21	3	2.0
2099686	Drill Core	10	4	1.06	93	<0.001	<20	1.44	0.023	0.18	0.2	<0.01	4.2	0.2	3.66	2	2.7
2099687	Drill Core	7	9	1.57	90	0.001	<20	2.07	0.028	0.24	<0.1	<0.01	5.3	0.2	4.53	4	2.7
2099688	Drill Core	6	15	2.90	69	0.003	<20	3.13	0.029	0.19	<0.1	<0.01	7.7	0.2	5.30	6	3.0
2099689	Drill Core	7	13	2.81	74	0.003	<20	3.01	0.031	0.23	<0.1	<0.01	8.2	0.2	4.85	6	3.6
2099690	Drill Core	9	6	0.77	98	0.002	<20	1.33	0.032	0.32	<0.1	<0.01	3.3	0.2	4.37	2	4.2
2099691	Drill Core	8	11	1.55	63	0.001	<20	1.93	0.031	0.20	0.1	<0.01	4.0	0.1	5.68	3	2.7
2099692	Drill Core	7	9	1.67	65	0.001	<20	2.27	0.040	0.21	0.1	0.01	3.6	0.1	5.00	4	3.2
2099693	Drill Core	6	6	0.86	88	0.002	<20	1.31	0.035	0.31	<0.1	0.01	3.0	0.2	6.36	2	3.1



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Report Date: November 08, 2012

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QUALITY CONTROL REPORT

SMI12000495.1

Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
REP G1-SMI	QC	<0.1	2.8	3.0	49	<0.1	4.1	4.3	612	1.88	0.9	2.5	5.4	59	<0.1	<0.1	<0.1	33	0.49	0.079	
2099629	Drill Core	4.29	42.8	35.5	98.6	252	0.8	2.2	7.1	1148	2.65	33.5	12.3	1.6	161	2.5	1.6	0.1	5	0.77	0.096
REP 2099629	QC	42.1	33.6	97.3	246	0.8	2.4	6.9	1142	2.61	33.7	13.7	1.7	157	2.5	1.3	0.1	5	0.76	0.101	
2099692	Drill Core	3.24	0.7	41.2	35.7	72	0.6	24.6	24.1	1571	4.98	9.3	11.4	0.5	164	0.4	<0.1	1.2	35	3.10	0.139
REP 2099692	QC	0.7	38.4	31.0	69	0.6	22.0	23.8	1543	4.74	8.6	11.5	0.5	155	0.5	<0.1	1.1	33	2.99	0.127	
Core Reject Duplicates																					
2099627	Drill Core	3.86	9.1	33.1	102.2	249	0.8	1.6	7.3	1044	2.44	26.5	7.6	1.7	159	2.4	0.1	0.1	5	0.87	0.113
DUP 2099627	QC	N.A.	6.4	25.2	73.3	191	0.6	1.3	6.3	813	2.05	24.1	3.3	1.8	136	1.8	0.2	0.1	5	0.71	0.099
2099661	Drill Core	3.02	10.8	33.6	23.0	44	0.6	2.0	5.5	200	2.60	29.6	21.9	1.7	64	0.2	0.2	1.6	<2	0.48	0.094
DUP 2099661	QC	N.A.	10.1	32.2	21.8	43	0.6	1.9	5.3	197	2.51	28.6	20.0	1.5	66	0.2	0.2	1.5	<2	0.44	0.093
Reference Materials																					
STD DS9	Standard	12.6	105.4	121.3	311	1.8	35.7	7.3	598	2.31	26.6	236.8	7.1	66	2.3	5.0	6.1	36	0.71	0.081	
STD DS9	Standard	11.3	103.0	126.0	302	1.8	37.5	7.7	535	2.28	25.5	113.6	6.2	70	2.3	4.5	6.1	38	0.70	0.082	
STD DS9	Standard	12.1	105.0	126.7	304	1.8	39.2	7.4	599	2.34	24.0	93.9	6.1	68	2.9	4.5	6.9	37	0.71	0.085	
STD OREAS45EA	Standard	1.5	666.8	13.4	29	0.3	338.0	45.7	374	20.62	9.5	50.4	9.9	1	<0.1	0.2	0.2	293	0.04	0.027	
STD OREAS45EA	Standard	1.3	686.9	14.6	29	0.3	380.0	50.8	392	22.11	9.7	54.9	10.2	2	<0.1	0.2	0.2	273	0.04	0.029	
STD OREAS45EA	Standard	1.2	663.4	13.5	29	0.3	334.7	49.8	408	21.16	7.1	44.9	9.6	<1	<0.1	0.1	0.2	287	0.09	0.029	
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
Prep Wash																					
G1-SMI	Prep Blank	N.A.																			
G1-SMI	Prep Blank	N.A.	0.1	2.5	3.2	49	<0.1	3.8	4.4	602	1.89	<0.5	<0.5	5.5	51	<0.1	<0.1	<0.1	34	0.44	0.079
G1-SMI	Prep Blank	<0.1	2.6	2.9	49	<0.1	3.4	4.1	617	1.88	0.6	1.4	4.8	58	<0.1	<0.1	<0.1	33	0.49	0.083	



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QUALITY CONTROL REPORT

SMI12000495.1

Method Analyte Unit MDL	1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5	1DX Te ppm 0.2
Pulp Duplicates																	
REP G1-SMI QC	8	7	0.56	240	0.131	<20	1.10	0.114	0.51	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
2099629 Drill Core	7	<1	0.12	113	<0.001	<20	0.54	0.035	0.27	<0.1	0.03	0.8	0.3	2.14	1	0.6	<0.2
REP 2099629 QC	7	<1	0.12	112	<0.001	<20	0.55	0.035	0.27	<0.1	0.03	1.0	0.3	2.12	1	0.5	<0.2
2099692 Drill Core	7	9	1.67	65	0.001	<20	2.27	0.040	0.21	0.1	0.01	3.6	0.1	5.00	4	3.2	0.7
REP 2099692 QC	7	9	1.64	63	<0.001	<20	2.21	0.037	0.20	0.1	<0.01	3.2	0.1	5.00	4	3.4	0.8
Core Reject Duplicates																	
2099627 Drill Core	8	1	0.12	74	0.001	<20	0.65	0.042	0.30	<0.1	0.03	1.3	0.3	2.04	2	<0.5	<0.2
DUP 2099627 QC	8	<1	0.11	75	0.001	<20	0.56	0.037	0.27	<0.1	0.02	1.0	0.2	1.75	1	<0.5	<0.2
2099661 Drill Core	6	<1	0.07	72	<0.001	<20	0.41	0.027	0.31	0.1	<0.01	0.7	0.2	2.96	<1	0.8	0.3
DUP 2099661 QC	5	1	0.07	68	<0.001	<20	0.38	0.026	0.29	0.1	<0.01	0.7	0.2	2.84	<1	<0.5	0.3
Reference Materials																	
STD DS9 Standard	12	121	0.61	320	0.098	<20	0.96	0.081	0.40	3.1	0.20	2.2	5.0	0.16	4	5.2	4.7
STD DS9 Standard	12	111	0.61	319	0.098	<20	0.94	0.084	0.39	2.9	0.20	2.2	5.3	0.16	4	5.6	4.7
STD DS9 Standard	12	119	0.61	313	0.109	<20	0.95	0.081	0.40	3.4	0.15	2.6	5.4	0.16	5	5.5	5.4
STD OREAS45EA Standard	6	794	0.10	138	0.081	<20	3.02	0.016	0.05	<0.1	<0.01	74.1	<0.1	<0.05	11	1.1	<0.2
STD OREAS45EA Standard	7	799	0.09	155	0.086	<20	3.02	0.023	0.05	<0.1	<0.01	78.0	<0.1	<0.05	12	1.0	<0.2
STD OREAS45EA Standard	6	805	0.09	134	0.085	<20	3.00	0.016	0.05	<0.1	<0.01	75.7	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA Expected	8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																	
G1-SMI Prep Blank																	
G1-SMI Prep Blank	9	10	0.56	221	0.128	<20	0.99	0.084	0.51	<0.1	0.01	2.6	0.3	<0.05	5	<0.5	<0.2
G1-SMI Prep Blank	9	7	0.56	242	0.127	<20	1.06	0.111	0.51	<0.1	<0.01	2.4	0.3	<0.05	6	0.6	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client:

Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp

Receiving Lab: Canada-Smithers

Received: October 23, 2012

Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000507.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 75

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	71	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX1	75	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI12000507.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
G1-SMI	Prep Blank	N.A.	0.1	9.3	2.6	43	<0.1	2.1	3.8	523	1.75	<0.5	<0.5	5.5	50	<0.1	<0.1	<0.1	31	0.57	0.074
G1-SMI	Prep Blank	N.A.	<0.1	7.1	2.9	45	<0.1	2.7	4.1	543	1.82	0.7	<0.5	5.3	59	<0.1	<0.1	<0.1	32	0.46	0.075
2099752	Drill Core	5.82	0.2	16.6	10.2	56	0.1	2.7	11.4	1992	2.37	3.6	1.1	2.3	85	0.1	0.2	<0.1	34	5.10	0.109
2099753	Drill Core	6.93	0.5	24.6	8.1	49	0.1	5.0	10.1	1128	2.57	4.1	2.1	2.6	65	0.2	0.1	<0.1	34	2.86	0.105
2099754	Drill Core	6.75	0.6	25.2	8.1	69	0.1	9.6	11.2	1240	3.07	11.8	3.8	2.5	69	<0.1	0.1	0.1	28	2.75	0.108
2099755	Drill Core	6.80	0.3	16.4	8.2	51	0.2	2.7	6.8	1784	2.08	17.3	4.8	2.2	57	<0.1	0.4	<0.1	21	3.77	0.099
2099756	Drill Core	5.77	0.2	14.4	8.3	61	0.4	2.2	7.2	1117	1.98	28.6	7.7	2.0	60	<0.1	0.2	<0.1	21	2.32	0.102
2099757	Drill Core	5.52	0.5	10.0	6.3	49	0.4	1.7	5.6	678	2.10	39.1	9.1	2.3	26	<0.1	0.6	<0.1	25	1.03	0.092
2099758	Drill Core	3.16	0.3	13.6	7.4	38	0.4	1.6	6.7	670	1.89	40.4	11.4	2.5	25	<0.1	0.4	<0.1	16	0.72	0.098
2099759	Drill Core	4.62	0.3	12.9	9.0	48	0.7	2.3	6.9	734	2.36	60.1	18.8	2.4	24	<0.1	0.6	<0.1	22	0.46	0.124
2099760	Drill Core	4.22	0.4	14.3	8.1	50	0.6	1.5	6.0	855	2.08	38.3	38.9	2.4	27	<0.1	0.5	<0.1	20	1.54	0.103
2099761	Drill Core	4.75	0.2	14.4	8.6	42	0.6	1.5	5.8	695	2.02	41.1	21.1	2.0	43	<0.1	0.3	<0.1	17	1.07	0.099
2099762	Drill Core	4.83	0.3	11.7	7.1	36	1.0	1.8	4.5	702	1.85	36.3	654.7	1.8	26	<0.1	0.4	<0.1	20	1.81	0.082
2099763	Drill Core	7.29	0.1	12.4	8.9	37	0.4	1.5	6.1	1120	1.81	34.1	12.3	1.8	57	<0.1	0.2	<0.1	11	3.23	0.101
2099764	Drill Core	6.84	0.3	12.4	7.6	35	0.4	1.6	5.1	1417	1.85	19.4	48.7	1.7	97	<0.1	0.2	<0.1	20	3.80	0.094
2099765	Drill Core	7.07	0.2	10.0	7.3	33	0.5	1.1	5.0	2794	1.81	23.5	42.7	1.5	84	<0.1	0.2	<0.1	15	5.32	0.079
2099766	Drill Core	7.22	0.3	11.1	7.6	30	0.3	1.2	5.2	1174	1.62	40.5	16.4	1.9	42	<0.1	0.2	<0.1	11	2.45	0.094
2099767	Drill Core	7.40	0.2	14.4	8.9	35	0.4	1.6	4.8	776	1.79	43.7	16.1	2.0	47	<0.1	0.2	<0.1	12	1.80	0.096
2099768	Drill Core	6.44	0.4	12.3	8.4	39	0.4	1.5	5.0	763	1.71	19.4	16.9	2.1	40	<0.1	0.2	<0.1	15	1.90	0.098
2099769	Drill Core	4.21	0.4	11.9	5.9	53	3.4	1.5	5.7	808	2.09	34.8	223.1	2.3	22	0.1	0.7	<0.1	26	2.04	0.098
2099770	Drill Core	5.01	0.4	11.8	6.5	38	0.7	1.3	3.7	715	1.88	17.6	66.6	2.1	18	<0.1	0.6	<0.1	27	1.41	0.086
2099771	Drill Core	6.75	0.3	13.0	7.9	56	0.4	1.6	6.8	951	2.33	30.9	17.7	2.0	46	0.2	0.2	<0.1	22	2.24	0.094
2099772	Drill Core	7.87	0.1	12.1	9.4	47	0.2	1.6	7.1	1384	2.24	29.2	11.4	1.7	52	0.1	0.1	<0.1	11	2.49	0.100
2099773	Drill Core	6.37	0.1	12.9	10.0	54	0.4	2.0	7.4	1103	2.25	33.2	10.5	1.7	59	<0.1	<0.1	<0.1	13	2.02	0.095
2099774	Drill Core	5.83	<0.1	14.9	10.8	55	0.5	1.9	6.7	1224	2.56	32.7	12.0	1.9	73	<0.1	0.2	<0.1	20	2.31	0.107
2099775	Drill Core	7.47	<0.1	13.6	9.9	48	0.3	1.6	6.7	1298	2.11	29.3	13.5	1.9	58	<0.1	0.2	<0.1	18	2.61	0.098
2099776	Drill Core	8.05	<0.1	14.2	11.1	53	0.5	1.5	6.4	1098	2.43	27.7	10.0	2.1	51	<0.1	0.2	<0.1	20	1.29	0.105
2099777	Drill Core	5.19	0.2	17.1	7.3	52	0.3	1.7	7.0	986	2.26	19.7	7.1	2.3	44	<0.1	0.2	<0.1	30	0.84	0.108
2099778	Drill Core	5.69	0.6	14.6	8.9	52	0.3	1.8	6.9	665	2.34	31.4	7.3	2.9	29	<0.1	1.2	<0.1	30	0.49	0.117
2099779	Drill Core	4.25	0.7	13.3	7.1	55	0.4	1.8	6.5	616	2.29	27.6	6.2	2.9	20	<0.1	0.6	<0.1	33	0.43	0.107



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CERTIFICATE OF ANALYSIS

SMI12000507.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	10	3	0.54	155	0.118	<20	0.88	0.088	0.47	<0.1	<0.01	2.0	0.3	<0.05	4	<0.5
G1-SMI	Prep Blank	11	7	0.49	149	0.119	<20	0.88	0.075	0.46	<0.1	<0.01	1.9	0.3	<0.05	4	<0.5
2099752	Drill Core	25	2	0.68	66	0.070	<20	1.87	0.024	0.19	<0.1	<0.01	2.9	<0.1	0.08	4	<0.5
2099753	Drill Core	20	4	0.67	53	0.084	<20	1.23	0.018	0.25	<0.1	<0.01	2.9	<0.1	0.05	3	<0.5
2099754	Drill Core	23	5	0.66	39	0.025	<20	1.23	0.012	0.22	<0.1	<0.01	2.8	<0.1	0.49	3	<0.5
2099755	Drill Core	22	1	0.57	43	0.028	<20	1.10	0.021	0.16	<0.1	<0.01	2.6	<0.1	0.38	3	<0.5
2099756	Drill Core	22	1	0.54	61	0.020	<20	1.02	0.021	0.17	<0.1	<0.01	2.1	<0.1	0.57	4	<0.5
2099757	Drill Core	19	1	0.44	23	0.054	<20	0.78	0.020	0.14	<0.1	0.02	2.4	0.1	0.55	3	<0.5
2099758	Drill Core	23	1	0.47	25	0.038	<20	0.80	0.016	0.16	<0.1	0.02	1.9	<0.1	0.58	4	<0.5
2099759	Drill Core	22	2	0.54	30	0.044	<20	0.88	0.027	0.14	<0.1	0.03	2.6	<0.1	0.89	5	0.5
2099760	Drill Core	23	2	0.40	28	0.064	<20	0.78	0.023	0.18	<0.1	0.02	2.8	<0.1	0.63	3	<0.5
2099761	Drill Core	20	1	0.48	25	0.021	<20	1.31	0.023	0.19	<0.1	0.03	2.2	<0.1	0.70	4	<0.5
2099762	Drill Core	16	3	0.41	18	0.065	<20	0.76	0.021	0.13	<0.1	0.03	2.6	<0.1	0.63	3	<0.5
2099763	Drill Core	24	<1	0.44	27	0.014	<20	0.87	0.017	0.19	<0.1	<0.01	1.7	<0.1	0.61	3	<0.5
2099764	Drill Core	19	3	0.38	47	0.105	<20	2.26	0.027	0.15	0.2	<0.01	3.3	<0.1	0.66	5	<0.5
2099765	Drill Core	22	2	0.37	59	0.061	<20	1.45	0.022	0.14	<0.1	0.01	2.7	<0.1	0.68	4	<0.5
2099766	Drill Core	23	<1	0.33	34	0.023	<20	0.75	0.014	0.17	<0.1	0.01	2.0	<0.1	0.60	3	<0.5
2099767	Drill Core	22	<1	0.37	40	0.018	<20	0.83	0.015	0.18	<0.1	<0.01	1.8	<0.1	0.75	3	<0.5
2099768	Drill Core	22	1	0.35	52	0.018	<20	0.73	0.014	0.18	<0.1	0.02	1.7	<0.1	0.40	3	<0.5
2099769	Drill Core	19	3	0.46	26	0.095	<20	0.68	0.026	0.16	0.1	0.02	3.8	<0.1	0.62	4	<0.5
2099770	Drill Core	17	4	0.44	24	0.119	<20	0.70	0.043	0.18	0.3	0.02	4.2	<0.1	0.57	4	<0.5
2099771	Drill Core	21	3	0.74	21	0.026	<20	1.28	0.035	0.19	<0.1	0.02	2.4	<0.1	0.70	5	<0.5
2099772	Drill Core	23	1	0.67	39	0.014	<20	1.19	0.019	0.18	<0.1	<0.01	1.8	<0.1	0.59	4	<0.5
2099773	Drill Core	28	1	0.76	31	0.004	<20	1.28	0.020	0.17	<0.1	0.02	1.8	<0.1	0.75	4	<0.5
2099774	Drill Core	23	1	0.77	26	0.007	<20	1.38	0.027	0.22	<0.1	0.02	2.5	<0.1	1.11	5	<0.5
2099775	Drill Core	21	1	0.64	33	0.014	<20	1.20	0.022	0.21	<0.1	0.01	2.2	<0.1	0.60	4	<0.5
2099776	Drill Core	18	2	0.73	24	0.019	<20	1.32	0.020	0.19	<0.1	0.02	2.1	<0.1	0.85	4	<0.5
2099777	Drill Core	24	2	0.73	28	0.022	<20	1.23	0.023	0.17	<0.1	0.03	2.6	<0.1	0.54	5	<0.5
2099778	Drill Core	23	2	0.62	25	0.085	<20	0.86	0.038	0.14	<0.1	0.01	3.5	<0.1	0.49	5	0.6
2099779	Drill Core	19	2	0.61	28	0.112	<20	0.79	0.040	0.12	0.2	<0.01	3.8	<0.1	0.48	4	<0.5



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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099780	Drill Core	3.20	1.2	12.5	6.1	50	0.9	1.3	3.7	497	2.01	18.4	40.1	3.5	19	<0.1	0.9	<0.1	32	0.40
2099781	Drill Core	6.07	1.1	13.4	5.9	44	1.1	1.5	4.3	500	1.95	16.0	39.1	3.6	18	<0.1	0.8	<0.1	28	0.37
2099782	Drill Core	3.52	0.6	14.8	4.5	29	0.7	1.0	3.9	435	1.77	20.0	8.7	3.0	15	<0.1	0.9	<0.1	24	0.33
2099783	Drill Core	4.89	0.3	12.1	5.1	34	0.6	2.0	4.7	476	1.84	22.1	21.8	2.3	14	0.1	1.1	<0.1	22	0.45
2099784	Drill Core	4.95	1.7	9.5	6.8	34	4.9	1.5	5.6	576	2.09	46.3	243.0	1.5	10	0.1	1.1	<0.1	24	0.39
2099785	Drill Core	7.54	2.9	11.8	6.5	32	2.7	1.8	5.3	629	1.87	58.0	485.4	1.7	12	<0.1	1.1	<0.1	29	0.39
2099786	Drill Core	4.53	6.9	12.0	8.5	41	3.9	1.9	6.5	760	1.95	126.9	1186	1.4	15	<0.1	2.5	<0.1	29	0.61
2099787	Drill Core	3.79	0.5	12.5	6.4	38	3.2	1.3	5.1	940	1.82	31.7	923.1	1.6	37	0.1	0.7	<0.1	34	2.19
2099788	Drill Core	4.54	<0.1	6.3	3.8	17	5.0	0.6	2.2	1640	0.85	16.1	1589	0.7	243	<0.1	0.5	<0.1	15	9.80
2099789	Rock Pulp	0.11	4.5	32.6	5.7	49	0.3	23.7	8.8	401	2.59	6.5	806.7	1.0	41	0.2	0.7	0.3	59	0.77
2099790	Drill Core	5.81	2.7	7.2	5.4	25	2.8	1.0	3.3	850	1.22	35.7	234.0	0.9	70	<0.1	0.9	<0.1	20	4.86
2099791	Drill Core	6.34	0.7	15.4	10.1	51	2.6	2.2	6.4	742	2.60	81.1	363.0	2.0	20	<0.1	1.1	<0.1	33	0.54
2099792 Dup of 2099791	CORE DUP	N.A.	0.6	15.7	10.8	53	2.3	2.0	6.7	765	2.73	83.9	132.1	2.0	21	<0.1	1.1	<0.1	34	0.55
2099793	Drill Core	7.62	0.3	13.0	8.9	48	1.0	1.6	6.0	766	2.50	35.4	130.7	2.8	15	<0.1	0.8	<0.1	29	0.49
2099794	Drill Core	6.95	0.8	15.3	9.6	48	0.9	1.5	5.6	889	2.39	21.7	185.7	3.3	17	<0.1	0.8	<0.1	33	0.89
2099795	Drill Core	7.57	1.1	13.6	7.6	49	0.5	1.5	5.5	910	2.40	11.4	111.9	3.4	24	<0.1	0.8	<0.1	38	1.55
2099796	Drill Core	8.63	2.0	14.4	6.8	45	0.4	1.6	5.3	773	2.27	9.4	18.0	3.6	26	<0.1	0.6	<0.1	34	1.25
2099797	Drill Core	8.41	1.0	13.8	7.5	42	0.5	1.3	5.4	811	2.17	14.3	30.7	2.6	33	<0.1	0.6	<0.1	32	1.74
2099798	Drill Core	5.39	0.8	14.0	7.7	48	0.9	1.5	5.7	711	2.44	12.8	328.5	2.7	24	<0.1	0.8	<0.1	35	1.02
2099799	Drill Core	7.12	0.9	15.3	7.6	47	0.5	1.4	5.6	868	2.41	13.9	60.1	2.6	19	<0.1	0.7	<0.1	36	1.22
2099800	Drill Core	6.35	0.7	16.2	8.1	43	0.7	1.6	5.2	1980	2.24	18.8	78.8	2.3	22	<0.1	1.0	<0.1	31	2.83
2099801	Drill Core	3.14	0.7	14.5	7.8	46	1.0	1.4	5.3	1108	2.18	20.4	155.2	2.7	19	<0.1	1.0	<0.1	30	1.27
2099802	Drill Core	7.99	0.6	16.0	8.6	56	1.5	2.1	6.7	1015	2.57	16.9	122.5	2.3	16	<0.1	1.2	<0.1	35	0.66
2099803	Drill Core	4.94	0.4	19.0	7.5	59	3.8	2.1	7.3	1088	2.43	16.2	80.8	2.2	15	<0.1	0.9	<0.1	40	0.83
2099804	Drill Core	1.82	0.3	20.7	9.6	45	6.2	1.9	6.0	2045	2.35	21.5	327.4	2.1	31	0.4	1.0	<0.1	45	3.02
2099805	Drill Core	6.50	<0.1	19.8	6.8	36	0.7	7.1	10.9	746	3.12	42.8	43.2	0.5	27	<0.1	0.2	<0.1	14	0.28
2099806	Drill Core	7.04	0.2	31.2	6.6	58	0.5	7.4	11.1	774	3.49	15.6	13.3	1.6	51	<0.1	0.5	<0.1	67	1.19
2099807	Drill Core	3.63	0.2	31.9	7.2	57	0.7	7.4	12.1	770	3.43	16.5	30.0	1.2	45	<0.1	0.4	<0.1	54	1.16
2099808	Drill Core	8.21	0.8	20.2	6.5	34	3.2	4.5	7.7	880	2.58	34.4	280.1	0.5	111	0.2	0.8	<0.1	17	4.86
2099809	Drill Core	3.50	0.1	30.4	8.0	57	1.0	5.9	9.2	523	3.20	20.6	35.5	1.0	63	<0.1	0.4	<0.1	31	1.81



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Project: Trout Property
Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000507.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099780	Drill Core	20	5	0.41	32	0.094	<20	0.59	0.044	0.13	1.0	0.02	4.2	<0.1	0.28	3	<0.5
2099781	Drill Core	21	4	0.43	31	0.086	<20	0.57	0.039	0.14	0.7	<0.01	4.1	<0.1	0.25	4	<0.5
2099782	Drill Core	20	5	0.41	29	0.097	<20	0.48	0.029	0.15	0.3	0.03	3.6	<0.1	0.29	3	<0.5
2099783	Drill Core	17	4	0.43	28	0.090	<20	0.52	0.023	0.15	0.4	0.08	4.2	<0.1	0.43	4	<0.5
2099784	Drill Core	13	6	0.45	17	0.131	<20	0.50	0.010	0.12	0.5	0.01	3.6	<0.1	1.40	3	0.7
2099785	Drill Core	14	8	0.38	20	0.117	<20	0.55	0.017	0.12	0.4	0.02	4.0	<0.1	0.95	3	<0.5
2099786	Drill Core	14	5	0.49	13	0.092	<20	0.63	0.019	0.11	0.2	0.01	3.5	<0.1	1.01	4	<0.5
2099787	Drill Core	15	4	0.51	17	0.098	<20	0.66	0.029	0.09	0.1	0.02	3.4	<0.1	0.60	5	0.5
2099788	Drill Core	7	2	0.18	5	0.062	<20	0.23	0.012	0.04	0.2	0.01	2.1	<0.1	0.49	2	0.6
2099789	Rock Pulp	4	32	0.72	104	0.116	<20	1.47	0.080	0.12	10.1	0.04	4.8	0.2	<0.05	5	<0.5
2099790	Drill Core	8	3	0.20	10	0.074	<20	0.45	0.013	0.09	0.2	0.01	2.5	<0.1	0.85	2	<0.5
2099791	Drill Core	20	3	0.64	20	0.084	<20	0.85	0.031	0.13	0.1	<0.01	3.6	<0.1	1.48	6	<0.5
2099792 Dup of 2099791	CORE DUP	20	3	0.65	21	0.085	<20	0.84	0.030	0.13	0.1	0.02	3.6	<0.1	1.50	6	<0.5
2099793	Drill Core	19	4	0.40	23	0.104	<20	0.69	0.034	0.14	0.1	<0.01	4.0	<0.1	1.45	4	0.6
2099794	Drill Core	20	3	0.29	26	0.108	<20	0.66	0.030	0.17	0.1	<0.01	4.4	<0.1	1.09	4	<0.5
2099795	Drill Core	21	3	0.24	30	0.122	<20	0.57	0.034	0.14	0.1	<0.01	5.1	<0.1	0.73	3	<0.5
2099796	Drill Core	20	2	0.23	35	0.111	<20	0.58	0.037	0.15	0.1	<0.01	4.6	<0.1	0.29	3	<0.5
2099797	Drill Core	20	3	0.21	24	0.103	<20	0.55	0.033	0.13	0.1	<0.01	4.2	<0.1	0.52	3	<0.5
2099798	Drill Core	20	5	0.22	27	0.111	<20	0.55	0.035	0.15	0.2	<0.01	4.3	<0.1	1.06	3	0.8
2099799	Drill Core	19	4	0.22	24	0.111	<20	0.53	0.042	0.10	0.1	<0.01	4.8	<0.1	0.97	4	<0.5
2099800	Drill Core	18	5	0.22	21	0.076	<20	0.46	0.035	0.09	<0.1	<0.01	4.8	<0.1	1.04	3	<0.5
2099801	Drill Core	20	4	0.34	24	0.077	<20	0.56	0.036	0.10	0.1	<0.01	4.0	<0.1	0.82	4	<0.5
2099802	Drill Core	19	4	0.40	24	0.089	<20	0.70	0.038	0.12	0.1	<0.01	4.2	<0.1	0.99	4	0.7
2099803	Drill Core	18	5	0.50	24	0.132	<20	0.68	0.035	0.11	0.2	<0.01	4.9	<0.1	0.79	4	0.8
2099804	Drill Core	18	3	0.32	15	0.146	<20	0.62	0.056	0.07	0.4	<0.01	5.5	<0.1	0.87	4	0.7
2099805	Drill Core	9	4	0.57	35	0.005	<20	1.12	0.008	0.28	<0.1	<0.01	4.0	<0.1	1.31	4	<0.5
2099806	Drill Core	17	10	0.48	36	0.094	<20	1.08	0.034	0.26	<0.1	<0.01	5.8	<0.1	0.76	4	<0.5
2099807	Drill Core	15	6	0.50	32	0.087	<20	1.11	0.032	0.23	<0.1	<0.01	5.5	<0.1	1.38	4	<0.5
2099808	Drill Core	8	4	0.18	27	0.087	<20	0.40	0.009	0.14	<0.1	0.01	4.4	<0.1	2.20	1	0.8
2099809	Drill Core	12	5	0.31	41	0.127	<20	0.80	0.031	0.22	<0.1	<0.01	4.4	<0.1	1.91	3	0.8



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CERTIFICATE OF ANALYSIS

SMI12000507.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099810	Rock Pulp	0.10	25.1	73.2	19.5	128	1.4	71.0	7.6	286	2.70	657.9	29.5	1.8	31	1.8	6.1	4.0	50	1.91
2099811	Drill Core	6.52	<0.1	27.9	6.7	44	0.7	5.7	10.6	450	3.07	24.1	10.4	0.7	31	<0.1	0.3	0.2	17	0.68
2099812	Drill Core	6.98	<0.1	28.7	8.1	43	0.6	6.4	11.2	492	3.01	23.7	11.8	0.7	54	<0.1	0.3	0.2	18	1.76
2099813	Rock Pulp	0.11	2.4	23.6	2.6	41	0.2	20.8	8.4	382	2.26	4.1	5.9	0.8	42	0.2	0.2	<0.1	57	0.79
2099814	Drill Core	6.63	<0.1	38.9	9.6	45	0.6	10.7	13.0	539	3.24	10.6	10.0	1.1	33	0.2	0.2	0.2	19	0.77
2099815	Drill Core	7.32	<0.1	42.7	5.5	58	0.7	18.5	19.0	1755	3.76	9.0	9.3	1.6	59	0.2	0.2	<0.1	62	3.24
2099816	Drill Core	7.52	0.1	46.5	5.3	54	0.6	19.3	19.1	1774	3.95	15.9	4.5	1.6	65	0.2	0.3	<0.1	74	3.43
2099817	Drill Core	6.31	0.2	38.5	5.5	57	0.6	19.4	20.4	1775	3.93	15.7	4.6	1.7	65	0.1	0.4	<0.1	69	4.15
2099818	Drill Core	6.90	0.2	35.6	6.2	45	0.7	17.6	17.0	1403	3.52	16.1	6.3	1.6	55	0.2	0.3	<0.1	52	3.19
2099819	Drill Core	7.16	<0.1	36.0	5.4	47	0.7	15.0	16.5	1339	3.64	12.2	9.3	1.3	57	0.2	0.2	<0.1	56	3.19
2099820	Drill Core	6.17	<0.1	38.7	5.6	57	0.7	17.2	19.5	1369	3.92	19.9	10.3	1.5	50	0.2	0.2	<0.1	52	1.95
2099821	Drill Core	7.53	<0.1	41.0	5.2	44	0.6	15.4	16.9	1133	3.30	19.7	3.8	1.1	49	0.4	0.2	<0.1	42	2.07
2099822	Drill Core	6.94	<0.1	33.4	6.5	51	0.7	11.4	16.1	693	3.33	10.9	38.0	0.9	43	0.3	0.2	<0.1	24	1.43
2099823	Drill Core	6.11	<0.1	30.2	6.7	44	0.4	10.6	14.9	724	3.52	13.2	6.3	1.0	41	<0.1	0.2	<0.1	38	1.30
2099824	Drill Core	7.25	0.1	32.4	5.5	51	0.5	10.2	14.4	841	3.40	12.7	28.2	1.1	55	0.1	0.2	<0.1	65	2.54
2099825	Drill Core	5.85	<0.1	30.5	6.8	40	1.1	7.5	12.2	522	3.72	20.4	198.9	0.7	82	<0.1	0.2	<0.1	18	3.02
2099826	Drill Core	5.82	<0.1	36.2	7.3	62	0.5	8.7	11.9	677	3.40	31.0	6.1	1.2	55	<0.1	0.2	<0.1	26	1.71



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CERTIFICATE OF ANALYSIS

SMI12000507.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099810	Rock Pulp	2	18	0.80	32	0.001	<20	0.23	0.003	0.16	1.5	4.83	3.0	1.8	1.80	<1	5.7
2099811	Drill Core	9	3	0.37	42	0.080	<20	0.85	0.019	0.22	<0.1	<0.01	3.8	0.1	2.01	3	0.7
2099812	Drill Core	8	3	0.36	42	0.063	<20	0.97	0.023	0.22	<0.1	0.03	3.6	<0.1	1.72	3	0.5
2099813	Rock Pulp	4	27	0.73	96	0.109	<20	1.48	0.086	0.14	7.6	0.01	4.3	<0.1	<0.05	5	<0.5
2099814	Drill Core	13	4	0.48	41	0.106	<20	1.06	0.022	0.26	<0.1	<0.01	3.3	<0.1	2.12	3	<0.5
2099815	Drill Core	16	19	0.78	50	0.176	<20	1.64	0.030	0.27	0.2	<0.01	5.5	<0.1	0.97	4	<0.5
2099816	Drill Core	18	19	0.82	51	0.197	<20	1.73	0.037	0.29	0.1	<0.01	5.8	<0.1	0.82	5	<0.5
2099817	Drill Core	19	20	0.83	38	0.211	<20	1.65	0.035	0.30	0.2	0.01	7.1	<0.1	1.19	5	<0.5
2099818	Drill Core	15	13	0.71	32	0.178	<20	1.41	0.033	0.27	0.3	0.02	6.3	<0.1	1.24	4	<0.5
2099819	Drill Core	13	13	0.70	39	0.162	<20	1.42	0.036	0.22	0.4	0.02	6.7	<0.1	1.78	5	<0.5
2099820	Drill Core	14	17	0.93	28	0.135	<20	1.66	0.034	0.23	0.2	0.01	5.7	<0.1	1.52	5	<0.5
2099821	Drill Core	12	11	0.80	31	0.138	<20	1.57	0.032	0.23	0.3	<0.01	5.1	<0.1	1.04	5	<0.5
2099822	Drill Core	10	6	0.79	26	0.119	<20	1.36	0.029	0.23	0.2	0.01	4.3	<0.1	1.63	4	<0.5
2099823	Drill Core	12	8	0.73	26	0.120	<20	1.37	0.030	0.24	<0.1	0.01	4.4	<0.1	1.14	4	<0.5
2099824	Drill Core	14	10	0.58	26	0.145	<20	1.22	0.040	0.23	0.1	0.02	5.7	<0.1	1.05	4	<0.5
2099825	Drill Core	8	3	0.40	24	0.117	<20	1.09	0.029	0.25	0.1	<0.01	3.7	0.1	2.40	3	<0.5
2099826	Drill Core	12	5	0.48	24	0.078	<20	1.32	0.039	0.24	0.1	<0.01	3.1	<0.1	1.59	3	0.6



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QUALITY CONTROL REPORT

SMI12000507.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
2099783	Drill Core	4.89	0.3	12.1	5.1	34	0.6	2.0	4.7	476	1.84	22.1	21.8	2.3	14	0.1	1.1	<0.1	22	0.45	0.097
REP 2099783	QC		0.4	12.2	5.2	34	0.6	2.1	4.7	480	1.85	23.2	30.0	2.4	15	<0.1	1.0	<0.1	22	0.47	0.098
2099818	Drill Core	6.90	0.2	35.6	6.2	45	0.7	17.6	17.0	1403	3.52	16.1	6.3	1.6	55	0.2	0.3	<0.1	52	3.19	0.077
REP 2099818	QC		<0.1	38.3	6.3	44	0.7	17.2	17.4	1404	3.55	15.8	6.5	1.5	54	0.2	0.3	<0.1	53	3.20	0.078
Core Reject Duplicates																					
2099773	Drill Core	6.37	0.1	12.9	10.0	54	0.4	2.0	7.4	1103	2.25	33.2	10.5	1.7	59	<0.1	<0.1	<0.1	13	2.02	0.095
DUP 2099773	QC	N.A.	0.1	14.7	12.0	54	0.4	2.0	7.8	1078	2.40	36.4	24.6	1.7	58	0.2	<0.1	<0.1	14	1.95	0.101
2099807	Drill Core	3.63	0.2	31.9	7.2	57	0.7	7.4	12.1	770	3.43	16.5	30.0	1.2	45	<0.1	0.4	<0.1	54	1.16	0.071
DUP 2099807	QC	N.A.	0.2	29.5	7.1	52	0.8	7.2	11.5	782	3.36	15.8	26.7	1.2	42	<0.1	0.5	<0.1	54	1.14	0.070
Reference Materials																					
STD DS9	Standard		11.8	107.0	126.0	300	1.5	36.8	7.1	576	2.36	25.5	190.2	6.4	71	2.5	4.5	6.4	39	0.67	0.085
STD DS9	Standard		12.9	109.1	130.2	307	1.8	40.9	7.6	555	2.28	24.9	115.9	5.7	65	2.4	3.6	5.7	37	0.70	0.078
STD DS9	Standard		12.0	107.4	120.8	309	1.9	39.5	7.6	576	2.39	25.9	158.4	6.1	70	2.4	3.8	6.7	42	0.71	0.083
STD OREAS45EA	Standard		1.3	657.9	14.3	28	0.3	362.3	50.0	392	22.79	8.4	67.5	10.5	4	<0.1	0.2	0.2	284	0.04	0.029
STD OREAS45EA	Standard		1.3	653.2	12.2	28	0.3	368.5	53.1	395	22.06	8.1	53.8	8.8	2	<0.1	0.1	0.2	293	0.03	0.024
STD OREAS45EA	Standard		1.5	669.0	13.8	32	0.3	385.5	52.7	426	24.40	7.8	62.5	9.9	4	<0.1	0.1	0.2	306	0.04	0.029
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	N.A.	0.1	9.3	2.6	43	<0.1	2.1	3.8	523	1.75	<0.5	<0.5	5.5	50	<0.1	<0.1	<0.1	31	0.57	0.074
G1-SMI	Prep Blank	N.A.	<0.1	7.1	2.9	45	<0.1	2.7	4.1	543	1.82	0.7	<0.5	5.3	59	<0.1	<0.1	<0.1	32	0.46	0.075



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North Vancouver BC V7J 2Z5 CANADA

Project:

Trout Property

Report Date:

November 08, 2012

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QUALITY CONTROL REPORT

SMI12000507.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																		
2099783	Drill Core	17	4	0.43	28	0.090	<20	0.52	0.023	0.15	0.4	0.08	4.2	<0.1	0.43	4	<0.5	<0.2
REP 2099783	QC	18	4	0.44	30	0.092	<20	0.52	0.023	0.15	0.4	0.06	4.4	<0.1	0.42	4	<0.5	<0.2
2099818	Drill Core	15	13	0.71	32	0.178	<20	1.41	0.033	0.27	0.3	0.02	6.3	<0.1	1.24	4	<0.5	<0.2
REP 2099818	QC	14	13	0.72	32	0.180	<20	1.42	0.033	0.27	0.2	0.02	6.1	<0.1	1.26	4	<0.5	<0.2
Core Reject Duplicates																		
2099773	Drill Core	28	1	0.76	31	0.004	<20	1.28	0.020	0.17	<0.1	0.02	1.8	<0.1	0.75	4	<0.5	<0.2
DUP 2099773	QC	28	1	0.76	39	0.004	<20	1.30	0.021	0.18	<0.1	0.02	1.8	<0.1	0.92	4	<0.5	<0.2
2099807	Drill Core	15	6	0.50	32	0.087	<20	1.11	0.032	0.23	<0.1	<0.01	5.5	<0.1	1.38	4	<0.5	<0.2
DUP 2099807	QC	15	6	0.48	30	0.082	<20	1.07	0.031	0.22	<0.1	<0.01	5.3	<0.1	1.35	4	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	12	115	0.61	343	0.106	<20	0.92	0.081	0.39	2.7	0.20	2.4	5.3	0.17	4	5.2	5.2
STD DS9	Standard	12	118	0.61	308	0.109	<20	0.97	0.082	0.40	2.4	0.20	2.1	5.3	0.16	4	4.6	4.5
STD DS9	Standard	12	115	0.64	317	0.105	<20	0.94	0.082	0.40	2.7	0.20	2.2	5.5	0.17	4	5.2	4.7
STD OREAS45EA	Standard	6	835	0.09	155	0.092	<20	2.87	0.023	0.05	<0.1	<0.01	83.0	<0.1	<0.05	11	0.5	<0.2
STD OREAS45EA	Standard	7	867	0.09	145	0.093	<20	2.97	0.013	0.05	<0.1	<0.01	68.5	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA	Standard	7	818	0.10	154	0.094	<20	3.09	0.021	0.06	<0.1	0.01	75.3	<0.1	<0.05	12	<0.5	<0.2
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	10	3	0.54	155	0.118	<20	0.88	0.088	0.47	<0.1	<0.01	2.0	0.3	<0.05	4	<0.5	<0.2
G1-SMI	Prep Blank	11	7	0.49	149	0.119	<20	0.88	0.075	0.46	<0.1	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2



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Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 25, 2012
Report Date: November 09, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS

SMI12000513.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	76	Crush, split and pulverize 250 g rock to 200 mesh			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN
RIFL2	1	Split samples by riffle splitter			SMI
1DX1	80	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI12000513.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1
G1-SMI	Prep Blank	0.1	2.2	6.3	51	<0.1	4.0	4.1	583	1.91	3.0	1.7	4.6	60	<0.1	<0.1	<0.1	33	0.46	0.079	8
G1-SMI	Prep Blank	0.1	2.2	11.1	50	<0.1	3.9	4.2	543	1.77	10.3	1.5	4.5	55	<0.1	<0.1	<0.1	30	0.41	0.084	7
2099827	Drill Core	0.2	15.1	27.1	199	0.6	1.8	4.7	892	1.66	27.3	7.3	3.4	12	0.6	0.9	<0.1	24	0.42	0.062	23
2099828	Drill Core	0.2	16.4	30.8	264	0.7	1.6	5.1	828	1.71	26.8	16.7	3.6	10	0.7	0.7	<0.1	21	0.25	0.057	22
2099829	Drill Core	0.2	18.7	10.6	71	1.2	3.7	6.3	627	1.94	29.7	722.2	2.5	9	0.2	0.9	<0.1	28	0.25	0.054	16
2099830	Drill Core	0.3	19.3	8.7	68	0.8	4.7	8.5	661	2.43	58.2	69.6	2.2	13	<0.1	1.8	<0.1	39	0.31	0.091	17
2099831	Drill Core	0.2	43.0	4.4	75	1.5	12.2	14.6	782	3.33	94.4	126.0	1.2	14	0.2	1.9	<0.1	65	0.35	0.106	12
2099832	Drill Core	0.3	26.8	5.5	65	1.9	4.8	8.7	632	2.71	65.0	98.1	1.6	21	<0.1	1.4	<0.1	53	0.41	0.109	14
2099833	Drill Core	0.2	29.0	5.7	97	1.7	7.8	12.8	1051	3.01	69.2	43.7	1.8	20	0.1	1.2	0.2	58	0.43	0.099	14
2099834	Drill Core	0.3	37.0	4.4	63	2.3	10.6	15.5	912	3.48	99.6	116.6	1.4	19	<0.1	1.6	<0.1	65	0.43	0.107	13
2099835	Drill Core	0.2	21.5	6.8	55	2.0	3.8	7.4	587	2.50	84.8	216.1	1.5	16	<0.1	1.2	<0.1	38	0.35	0.089	14
2099836	Drill Core	0.4	15.0	8.3	56	1.1	2.5	7.5	898	2.35	54.0	55.7	1.7	19	0.1	1.1	<0.1	35	0.42	0.095	16
2099837	Drill Core	0.2	14.5	8.5	61	1.0	2.3	7.0	1234	2.20	36.7	51.3	1.8	18	0.2	0.8	<0.1	31	0.39	0.088	17
2099838	Drill Core	0.3	13.2	8.4	55	0.8	1.8	5.9	544	2.09	34.0	31.8	2.1	17	<0.1	0.8	<0.1	27	0.38	0.096	17
2099839	Drill Core	0.3	14.4	10.3	63	0.7	1.9	7.2	638	2.04	42.7	40.7	2.0	22	0.1	1.0	<0.1	21	0.42	0.110	18
2099840	Drill Core	0.2	13.6	10.2	75	0.5	1.8	6.4	750	1.88	27.8	17.7	2.0	25	0.1	0.7	<0.1	18	0.48	0.131	22
2099841	Drill Core	0.2	12.9	9.9	61	0.5	2.0	6.0	668	2.21	19.9	18.7	1.9	24	<0.1	0.6	<0.1	22	0.45	0.102	19
2099842	Drill Core	0.3	14.3	11.8	69	0.7	2.4	9.0	1058	2.36	24.5	14.9	2.2	19	0.2	0.6	<0.1	35	0.40	0.089	18
2099843	Drill Core	0.2	12.0	5.6	44	0.5	2.2	5.8	827	1.87	20.8	13.4	2.3	13	0.1	0.6	<0.1	29	0.30	0.075	17
2099844	Drill Core	0.4	12.1	6.9	47	1.0	3.1	8.0	850	2.26	57.7	26.2	2.0	13	0.1	0.8	<0.1	39	0.29	0.069	13
2099845	Drill Core	0.3	11.4	6.8	50	0.7	1.6	6.2	801	1.88	31.2	35.1	1.9	14	<0.1	0.8	<0.1	29	0.32	0.087	16
2099846	Drill Core	0.3	13.4	6.4	39	0.6	2.0	5.4	504	1.92	30.4	54.8	2.5	13	<0.1	0.7	<0.1	36	0.39	0.077	16
2099847	Drill Core	0.2	12.3	7.6	48	0.7	1.9	6.0	676	2.17	36.6	169.3	2.3	12	<0.1	0.8	<0.1	42	0.34	0.083	17
2099848	Drill Core	0.2	14.1	9.2	55	1.3	1.9	6.5	865	2.51	47.0	608.7	2.2	10	0.1	0.8	<0.1	44	0.33	0.097	18
2099849	Drill Core	0.3	19.1	7.5	51	0.2	4.8	9.0	1176	2.28	16.4	40.8	1.8	66	<0.1	0.5	<0.1	23	1.59	0.031	16
2099850	Drill Core	0.3	24.9	7.4	43	0.2	5.9	9.2	953	2.77	25.5	25.4	1.6	90	<0.1	0.4	0.2	27	1.96	0.038	17
2099851	Drill Core	0.2	25.8	7.2	71	0.5	6.4	11.4	586	2.77	23.6	19.3	1.8	78	<0.1	0.4	0.1	24	1.40	0.070	14
2099852	Drill Core	<0.1	37.2	9.0	49	0.7	12.1	14.2	609	3.22	29.8	23.2	1.2	67	<0.1	0.5	0.2	18	1.27	0.044	10
2099853	Drill Core	0.2	36.4	6.1	44	0.3	16.2	15.3	1419	3.38	15.6	15.3	1.4	91	0.4	0.6	<0.1	25	3.36	0.069	15
2099854	Drill Core	0.2	49.7	4.9	63	0.2	20.7	18.4	1617	3.70	6.4	8.7	1.7	69	0.2	0.5	<0.1	70	2.69	0.094	18



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Project: Trout Property
Report Date: November 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000513.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	8	0.58	254	0.121	<20	0.96	0.081	0.48	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5
G1-SMI	Prep Blank	8	0.55	238	0.118	<20	0.92	0.065	0.45	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5
2099827	Drill Core	4	0.24	47	0.044	<20	0.53	0.027	0.17	<0.1	0.07	2.6	<0.1	0.46	3	<0.5
2099828	Drill Core	4	0.27	42	0.051	<20	0.54	0.026	0.15	0.1	0.08	2.9	<0.1	0.80	3	<0.5
2099829	Drill Core	4	0.44	25	0.070	<20	0.61	0.018	0.14	0.1	0.02	3.9	<0.1	0.92	3	<0.5
2099830	Drill Core	6	0.65	26	0.079	<20	0.78	0.025	0.15	0.1	0.03	4.4	<0.1	0.66	5	<0.5
2099831	Drill Core	20	1.03	20	0.095	<20	0.94	0.029	0.10	0.2	<0.01	6.3	0.1	0.88	7	<0.5
2099832	Drill Core	9	0.56	28	0.084	<20	0.76	0.025	0.15	0.3	<0.01	5.7	<0.1	0.73	5	0.5
2099833	Drill Core	12	0.60	28	0.088	<20	0.86	0.024	0.16	0.2	0.02	7.2	0.2	0.83	5	<0.5
2099834	Drill Core	19	0.79	26	0.099	<20	1.01	0.032	0.14	0.2	0.01	8.1	<0.1	1.23	7	0.7
2099835	Drill Core	6	0.54	24	0.081	<20	0.72	0.028	0.10	0.1	<0.01	5.2	<0.1	1.29	5	<0.5
2099836	Drill Core	4	0.57	21	0.088	<20	0.88	0.032	0.12	0.1	0.02	4.2	<0.1	1.07	5	<0.5
2099837	Drill Core	3	0.54	26	0.073	<20	0.87	0.030	0.11	0.1	<0.01	3.9	<0.1	0.88	5	<0.5
2099838	Drill Core	3	0.53	28	0.079	<20	0.77	0.029	0.14	0.2	0.03	3.6	<0.1	0.73	5	<0.5
2099839	Drill Core	2	0.59	23	0.034	<20	0.89	0.016	0.19	<0.1	0.02	2.7	<0.1	0.69	5	<0.5
2099840	Drill Core	2	0.50	29	0.027	<20	0.88	0.017	0.19	<0.1	0.02	2.9	<0.1	0.60	4	<0.5
2099841	Drill Core	2	0.55	22	0.035	<20	0.98	0.019	0.16	<0.1	0.02	2.5	<0.1	0.90	5	<0.5
2099842	Drill Core	3	0.52	26	0.092	<20	0.88	0.031	0.12	<0.1	0.04	4.1	<0.1	0.98	5	<0.5
2099843	Drill Core	5	0.37	37	0.076	<20	0.60	0.023	0.12	0.1	0.03	4.0	<0.1	0.80	4	<0.5
2099844	Drill Core	5	0.44	26	0.084	<20	0.70	0.024	0.13	0.1	0.01	4.2	<0.1	1.17	4	0.5
2099845	Drill Core	3	0.45	23	0.088	<20	0.68	0.026	0.10	0.2	0.02	3.7	<0.1	0.68	4	<0.5
2099846	Drill Core	4	0.24	27	0.127	<20	0.61	0.027	0.11	5.0	0.06	5.0	<0.1	0.90	3	<0.5
2099847	Drill Core	6	0.24	31	0.124	<20	0.66	0.035	0.14	0.5	0.03	5.7	<0.1	1.00	4	<0.5
2099848	Drill Core	5	0.29	26	0.096	<20	0.71	0.029	0.12	0.3	0.02	5.1	<0.1	1.23	5	<0.5
2099849	Drill Core	4	0.33	101	0.007	<20	0.85	0.010	0.16	<0.1	<0.01	2.1	<0.1	0.37	2	<0.5
2099850	Drill Core	5	0.29	92	0.007	<20	0.92	0.013	0.20	<0.1	<0.01	2.3	<0.1	0.45	2	<0.5
2099851	Drill Core	4	0.32	65	0.006	<20	1.05	0.021	0.23	<0.1	<0.01	2.6	<0.1	0.80	2	<0.5
2099852	Drill Core	6	0.39	65	0.005	<20	1.08	0.015	0.22	<0.1	<0.01	3.8	<0.1	2.01	2	<0.5
2099853	Drill Core	7	0.76	72	0.131	<20	1.77	0.015	0.21	0.4	<0.01	5.0	<0.1	1.63	3	<0.5
2099854	Drill Core	16	0.67	31	0.137	<20	1.39	0.015	0.22	<0.1	<0.01	5.8	<0.1	0.39	4	<0.5



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SMI12000513.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
2099855	Drill Core	0.2	47.3	3.9	47	<0.1	15.4	17.0	1800	3.35	3.6	2.8	1.6	104	0.3	0.2	<0.1	69	4.11	0.083	16
2099856	Drill Core	0.3	33.4	6.0	48	<0.1	11.6	15.4	1253	3.41	3.8	3.5	2.0	228	0.2	0.2	<0.1	64	3.48	0.091	16
2099857	Drill Core	0.1	33.4	6.3	50	0.3	8.6	12.6	592	3.84	14.5	14.7	0.8	99	<0.1	0.2	<0.1	23	2.29	0.016	8
2099858	Drill Core	0.7	34.6	7.4	40	0.8	6.9	9.2	519	4.07	33.3	24.2	0.6	82	<0.1	0.3	<0.1	10	1.89	0.010	7
2099859	Drill Core	0.3	29.7	6.7	48	0.2	8.0	11.0	584	3.55	16.2	6.5	0.9	89	<0.1	0.3	<0.1	18	1.59	0.013	10
2099860	Drill Core	0.1	25.9	8.7	42	0.5	8.0	12.4	473	3.29	15.7	149.0	1.2	87	<0.1	0.1	0.2	31	2.16	0.025	10
2099861	Drill Core	0.2	35.9	7.0	47	0.5	9.6	11.9	489	3.18	22.0	15.5	0.9	73	<0.1	<0.1	0.1	23	1.62	0.022	11
2099862	Drill Core	0.1	28.9	6.6	39	0.6	10.4	12.0	731	2.98	20.9	22.7	0.8	54	<0.1	0.2	0.2	17	1.70	0.017	9
2099863	Drill Core	<0.1	31.8	6.9	34	1.1	8.4	9.3	571	2.55	21.1	71.4	0.8	49	<0.1	0.2	0.2	16	2.23	0.031	10
2099864	Rock Pulp	2.1	21.1	2.5	38	0.2	19.7	8.3	351	2.09	5.1	<0.5	0.9	35	0.1	0.2	<0.1	52	0.76	0.051	4
2099865	Drill Core	<0.1	33.3	5.8	32	2.1	6.9	8.2	490	2.61	46.3	41.9	0.5	35	<0.1	0.3	<0.1	13	1.17	0.016	6
2099866	Drill Core	<0.1	36.1	7.1	38	2.6	7.4	9.3	364	2.58	77.2	243.0	0.8	24	<0.1	0.7	0.1	18	0.75	0.030	10
2099867	Drill Core	0.3	38.7	5.5	49	2.4	9.6	10.1	386	2.52	16.9	154.1	1.5	22	<0.1	0.6	0.1	42	0.46	0.063	11
2099868	Drill Core	0.2	41.8	5.3	33	1.3	11.1	10.5	761	2.45	11.3	65.2	1.4	40	<0.1	0.4	0.1	38	2.02	0.047	8
2099869	Rock Pulp	26.2	71.5	19.8	129	1.5	71.4	7.7	296	2.70	650.3	56.6	1.7	30	2.1	6.7	3.9	50	2.06	0.084	2
2099870	Drill Core	<0.1	40.4	3.6	43	2.3	18.9	17.4	1529	3.80	8.3	29.2	1.3	41	<0.1	0.3	<0.1	90	2.42	0.072	11
2099871	Drill Core	0.2	52.6	4.7	39	23.0	9.9	12.4	956	2.84	12.7	83.0	1.5	36	<0.1	1.1	<0.1	64	1.75	0.082	10
2099872 Dup of 2099871	CORE DUP	0.2	56.2	4.9	39	26.2	10.2	12.4	870	2.81	12.4	82.7	1.5	34	<0.1	1.2	<0.1	62	1.42	0.078	11
2099873	Drill Core	0.1	55.5	4.4	48	1.5	17.2	20.5	1453	4.22	32.4	12.0	1.3	45	<0.1	0.3	<0.1	102	1.31	0.078	13
2099874	Drill Core	0.2	49.6	6.8	42	4.1	15.4	15.0	683	3.02	25.1	49.4	1.9	45	<0.1	0.5	0.2	48	1.01	0.081	15
2099875	Rock Pulp	4.0	32.0	5.0	49	0.3	22.7	8.8	366	2.32	6.2	700.0	0.9	36	<0.1	0.6	<0.1	54	0.75	0.056	4
2099876	Drill Core	0.2	46.5	7.8	40	1.1	16.4	14.7	474	3.01	16.0	14.3	1.9	42	<0.1	0.3	0.3	28	1.20	0.089	13
2099877	Drill Core	<0.1	45.1	7.5	39	1.3	17.9	15.9	697	3.40	22.8	18.2	2.2	44	<0.1	0.3	0.3	30	1.78	0.092	15
2099878	Drill Core	0.1	37.5	7.7	32	1.0	13.1	11.7	375	3.08	19.5	12.1	1.8	34	0.2	0.3	0.3	27	0.54	0.091	14
2099879	Drill Core	0.1	42.9	7.5	34	1.3	13.6	12.7	480	2.78	29.3	31.7	1.8	26	<0.1	0.5	0.4	31	0.64	0.064	12
2099880	Drill Core	0.3	45.1	5.2	38	1.4	14.5	13.1	868	2.83	17.9	25.6	2.6	41	0.5	0.5	0.2	52	1.73	0.096	16
2099881	Drill Core	0.4	43.2	5.6	36	1.0	14.6	13.3	671	2.89	10.3	10.3	2.8	50	<0.1	0.4	0.2	50	1.32	0.093	18
2099882	Drill Core	0.2	44.8	6.1	33	1.3	12.7	11.7	577	2.92	26.9	27.3	2.1	37	0.1	0.5	0.3	39	1.36	0.083	17
2099883	Drill Core	<0.1	40.2	7.0	43	1.6	13.0	11.9	348	3.42	28.8	32.4	1.4	35	<0.1	0.5	0.2	24	0.47	0.055	16
2099884	Drill Core	0.2	35.7	5.6	29	1.1	9.8	8.5	566	2.60	20.1	17.8	2.3	43	<0.1	0.3	0.2	32	1.57	0.076	16



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CERTIFICATE OF ANALYSIS

SMI12000513.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099855	Drill Core	13	0.67	81	0.118	<20	1.71	0.043	0.22	0.2	<0.01	4.9	<0.1	0.24	4	0.7
2099856	Drill Core	16	0.75	240	0.022	<20	3.17	0.133	0.23	<0.1	<0.01	6.2	<0.1	0.23	5	<0.5
2099857	Drill Core	4	0.63	62	0.002	<20	1.89	0.039	0.15	<0.1	<0.01	3.6	<0.1	1.31	5	<0.5
2099858	Drill Core	2	0.36	38	<0.001	<20	1.38	0.035	0.16	<0.1	<0.01	3.6	<0.1	3.02	3	<0.5
2099859	Drill Core	4	0.43	38	<0.001	<20	1.48	0.033	0.14	<0.1	<0.01	3.1	<0.1	1.70	4	<0.5
2099860	Drill Core	6	0.39	78	0.005	<20	1.52	0.034	0.24	<0.1	<0.01	3.4	<0.1	0.96	4	<0.5
2099861	Drill Core	4	0.41	78	0.003	<20	1.44	0.029	0.24	<0.1	<0.01	2.8	<0.1	1.11	4	<0.5
2099862	Drill Core	3	0.40	83	0.006	<20	1.25	0.019	0.23	<0.1	<0.01	3.1	0.1	1.22	3	<0.5
2099863	Drill Core	5	0.28	72	0.025	<20	0.86	0.015	0.26	<0.1	<0.01	3.3	<0.1	1.46	3	0.6
2099864	Rock Pulp	25	0.68	90	0.102	<20	1.42	0.076	0.12	9.0	0.02	4.4	<0.1	<0.05	4	<0.5
2099865	Drill Core	4	0.20	37	0.031	<20	0.72	0.015	0.34	<0.1	<0.01	4.1	0.1	1.83	2	0.6
2099866	Drill Core	5	0.24	30	0.039	<20	0.68	0.016	0.27	<0.1	<0.01	3.8	0.1	1.73	3	1.4
2099867	Drill Core	12	0.35	25	0.061	<20	0.80	0.015	0.27	<0.1	0.02	5.4	<0.1	0.41	3	<0.5
2099868	Drill Core	15	0.42	176	0.047	<20	0.78	0.014	0.22	<0.1	<0.01	5.0	<0.1	0.64	3	<0.5
2099869	Rock Pulp	19	0.83	110	0.001	<20	0.26	0.001	0.16	1.8	5.50	3.0	2.2	1.84	1	6.1
2099870	Drill Core	21	0.98	22	0.078	<20	1.33	0.027	0.13	<0.1	0.02	7.7	<0.1	0.60	7	<0.5
2099871	Drill Core	14	0.57	24	0.079	<20	0.97	0.024	0.18	<0.1	<0.01	6.1	<0.1	0.62	5	0.9
2099872 Dup of 2099871	CORE DUP	14	0.56	22	0.080	<20	0.96	0.025	0.17	<0.1	0.02	5.9	<0.1	0.64	5	<0.5
2099873	Drill Core	22	0.92	24	0.119	<20	1.57	0.034	0.14	0.1	0.02	9.6	<0.1	1.62	8	<0.5
2099874	Drill Core	16	0.50	42	0.038	<20	1.16	0.020	0.26	<0.1	0.02	5.5	0.1	0.67	4	<0.5
2099875	Rock Pulp	29	0.68	92	0.101	<20	1.40	0.073	0.12	11.3	0.04	4.5	<0.1	<0.05	5	<0.5
2099876	Drill Core	11	0.35	41	0.037	<20	0.98	0.021	0.27	<0.1	0.02	3.8	<0.1	1.49	3	<0.5
2099877	Drill Core	12	0.38	44	0.067	<20	1.00	0.024	0.30	<0.1	<0.01	4.3	<0.1	2.33	3	1.3
2099878	Drill Core	10	0.26	33	0.072	<20	0.86	0.024	0.32	0.1	<0.01	4.1	<0.1	2.31	3	<0.5
2099879	Drill Core	11	0.30	35	0.044	<20	0.82	0.019	0.35	<0.1	<0.01	4.6	0.2	1.60	3	1.2
2099880	Drill Core	20	0.39	39	0.057	<20	0.95	0.027	0.25	<0.1	<0.01	6.3	<0.1	0.89	4	0.9
2099881	Drill Core	17	0.38	45	0.052	<20	1.04	0.028	0.33	<0.1	0.02	4.7	0.1	0.56	3	1.3
2099882	Drill Core	14	0.34	48	0.036	<20	0.91	0.020	0.34	<0.1	0.04	4.2	0.2	1.23	3	<0.5
2099883	Drill Core	10	0.32	49	0.022	<20	1.01	0.024	0.37	<0.1	0.01	4.7	0.1	2.24	3	<0.5
2099884	Drill Core	11	0.32	43	0.022	<20	0.85	0.027	0.28	0.1	0.03	3.9	0.1	1.32	3	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001	1DX La ppm 1
2099885	Drill Core	0.1	36.9	7.2	27	1.3	8.0	9.2	278	2.18	22.9	34.0	1.2	25	<0.1	0.6	0.1	19	0.30	0.037	12
2099886	Drill Core	0.3	18.8	5.8	31	0.8	8.1	9.5	388	1.91	12.2	21.3	1.5	25	<0.1	0.2	<0.1	16	0.89	0.030	9
2099887	Drill Core	0.1	38.9	6.0	38	0.9	11.2	10.9	579	2.61	12.1	11.5	1.7	30	<0.1	0.3	0.1	26	1.22	0.064	11
2099888	Drill Core	<0.1	39.7	5.7	32	1.3	12.3	11.8	353	2.79	15.8	12.9	2.1	25	0.2	0.3	0.2	26	0.57	0.083	12
2099889	Drill Core	<0.1	36.6	6.4	34	1.2	11.2	10.8	385	3.05	19.3	23.9	1.8	27	<0.1	0.4	0.2	28	0.87	0.081	14
2099890	Drill Core	<0.1	36.8	5.5	41	1.0	12.7	12.0	476	3.16	16.3	12.9	0.7	26	<0.1	0.4	0.1	19	0.64	0.022	7
2099891	Drill Core	<0.1	39.3	8.3	39	0.6	11.6	12.0	354	2.70	12.5	4.8	1.5	30	<0.1	0.2	0.2	17	0.38	0.056	15
2099892	Drill Core	<0.1	9.9	6.2	33	0.3	4.9	7.5	616	1.39	2.9	1.9	0.9	39	<0.1	<0.1	<0.1	7	2.00	0.012	8
2099893	Drill Core	<0.1	8.5	6.1	29	0.2	4.0	5.5	350	1.31	1.8	6.4	1.3	40	<0.1	<0.1	<0.1	8	1.22	0.018	10
2099894	Drill Core	<0.1	6.9	6.9	31	0.5	4.8	6.1	434	1.33	1.8	5.8	1.2	45	<0.1	<0.1	<0.1	6	1.99	0.014	12
2099895	Drill Core	<0.1	16.3	7.5	36	2.8	10.9	8.4	493	1.54	6.1	13.9	0.7	54	<0.1	0.1	0.2	5	2.46	0.007	12
2099896	Drill Core	<0.1	42.0	8.5	42	0.7	27.9	12.7	452	3.14	10.7	13.1	0.4	47	<0.1	0.3	0.2	7	1.45	0.012	6
2099897	Drill Core	<0.1	39.2	6.8	41	0.8	16.5	11.7	382	2.75	17.8	12.7	0.6	37	<0.1	0.3	0.1	12	0.64	0.014	9
2099898	Drill Core	<0.1	65.4	7.4	67	0.7	18.3	12.8	342	2.82	17.9	9.8	0.5	37	<0.1	0.5	0.2	10	0.41	0.006	5
2099899	Drill Core	0.4	55.8	4.5	58	0.5	38.4	23.2	2040	4.13	12.7	3.3	0.9	139	0.2	0.5	<0.1	88	3.86	0.119	16
2099900	Drill Core	0.4	54.7	1.8	61	0.2	45.7	29.1	1892	5.27	9.8	2.6	0.9	179	<0.1	0.6	<0.1	139	4.53	0.153	16
2099901	Drill Core	0.4	53.5	1.7	60	0.6	47.6	28.9	2037	5.16	8.7	5.4	0.9	119	<0.1	0.5	<0.1	146	4.34	0.148	16
2099902	Drill Core	0.6	29.6	1.5	54	<0.1	42.6	25.8	1860	5.19	<0.5	1.0	1.0	170	0.1	0.5	<0.1	168	3.65	0.151	16
2099903	Drill Core	0.7	43.8	1.7	56	0.6	46.0	28.8	1530	5.41	11.0	9.2	0.9	142	<0.1	0.5	<0.1	163	4.20	0.147	15
2099904	Drill Core	0.5	100.6	1.7	56	0.3	41.3	26.3	1231	4.84	3.2	10.5	0.9	108	<0.1	0.6	<0.1	132	3.70	0.144	15
2099905	Drill Core	0.5	47.7	1.5	57	0.1	41.8	29.5	1340	4.76	1.1	1.5	0.9	118	<0.1	0.5	<0.1	120	3.93	0.142	16
2099906	Drill Core	0.4	45.0	1.6	58	0.1	44.3	29.1	1765	4.87	1.8	2.4	1.0	94	<0.1	0.3	<0.1	124	4.43	0.150	17



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099885	Drill Core	6	0.35	41	0.032	<20	0.83	0.017	0.31	<0.1	0.01	3.2	0.1	0.93	3	0.7
2099886	Drill Core	4	0.41	24	0.017	<20	0.74	0.013	0.22	<0.1	0.01	2.5	<0.1	1.15	3	<0.5
2099887	Drill Core	9	0.39	29	0.029	<20	0.93	0.018	0.30	<0.1	0.02	4.2	<0.1	1.27	3	1.5
2099888	Drill Core	10	0.30	34	0.029	<20	0.78	0.019	0.33	<0.1	0.02	4.0	0.1	2.06	3	0.6
2099889	Drill Core	12	0.28	35	0.038	<20	0.85	0.024	0.33	<0.1	<0.01	4.2	<0.1	2.11	3	2.4
2099890	Drill Core	3	0.43	36	0.055	<20	1.13	0.020	0.30	<0.1	<0.01	3.9	<0.1	1.51	4	1.5
2099891	Drill Core	6	0.49	34	0.028	<20	1.21	0.024	0.28	<0.1	<0.01	3.0	<0.1	0.85	3	<0.5
2099892	Drill Core	2	0.62	18	0.008	<20	0.93	0.025	0.19	<0.1	<0.01	1.7	<0.1	0.35	3	<0.5
2099893	Drill Core	3	0.65	22	0.008	<20	1.05	0.036	0.20	<0.1	<0.01	1.2	<0.1	0.28	3	0.7
2099894	Drill Core	3	0.71	19	0.006	<20	1.00	0.029	0.18	<0.1	<0.01	1.0	<0.1	0.20	2	0.8
2099895	Drill Core	1	0.56	14	0.011	<20	0.95	0.019	0.21	<0.1	<0.01	1.6	<0.1	0.48	2	<0.5
2099896	Drill Core	4	0.39	13	0.004	<20	1.01	0.021	0.17	<0.1	<0.01	3.4	<0.1	1.80	2	<0.5
2099897	Drill Core	5	0.34	13	0.005	<20	0.94	0.023	0.16	<0.1	<0.01	3.0	<0.1	1.76	3	<0.5
2099898	Drill Core	2	0.31	14	<0.001	<20	0.83	0.022	0.15	<0.1	<0.01	3.3	<0.1	2.02	2	<0.5
2099899	Drill Core	32	1.02	39	0.125	<20	2.24	0.158	0.14	<0.1	0.01	8.0	<0.1	0.87	6	<0.5
2099900	Drill Core	51	1.68	53	0.170	<20	3.00	0.228	0.09	<0.1	0.02	10.1	<0.1	0.66	8	<0.5
2099901	Drill Core	54	1.95	20	0.163	<20	2.89	0.129	0.06	<0.1	0.02	9.4	<0.1	0.43	9	<0.5
2099902	Drill Core	57	2.02	29	0.193	<20	2.98	0.269	0.04	<0.1	<0.01	9.8	<0.1	<0.05	9	<0.5
2099903	Drill Core	58	1.78	24	0.181	<20	2.88	0.210	0.05	<0.1	0.02	10.1	<0.1	0.42	9	<0.5
2099904	Drill Core	55	1.71	20	0.127	<20	2.53	0.137	0.06	<0.1	0.02	9.0	<0.1	0.14	8	<0.5
2099905	Drill Core	53	1.92	22	0.117	<20	2.78	0.183	0.05	<0.1	0.03	9.6	<0.1	<0.05	8	<0.5
2099906	Drill Core	55	1.93	17	0.101	<20	2.99	0.141	0.06	<0.1	0.02	9.7	<0.1	0.05	8	<0.5



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Project:

Trout Property

Report Date:

November 09, 2012

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QUALITY CONTROL REPORT

SMI12000513.1

Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
REP 2099827	QC	0.2	15.0	25.0	199	0.7	1.6	4.5	874	1.56	24.7	38.9	3.4	11	0.6	0.9	<0.1	24	0.43	0.060	21
2099871	Drill Core	0.2	52.6	4.7	39	23.0	9.9	12.4	956	2.84	12.7	83.0	1.5	36	<0.1	1.1	<0.1	64	1.75	0.082	10
REP 2099871	QC	0.1	53.5	4.8	38	21.5	9.0	12.4	952	2.84	12.0	86.9	1.5	36	<0.1	1.1	<0.1	63	1.68	0.080	11
2099897	Drill Core	<0.1	39.2	6.8	41	0.8	16.5	11.7	382	2.75	17.8	12.7	0.6	37	<0.1	0.3	0.1	12	0.64	0.014	9
REP 2099897	QC	<0.1	34.8	6.8	42	0.8	17.1	11.5	379	2.72	17.4	12.6	0.6	37	<0.1	0.4	0.1	12	0.64	0.013	9
Core Reject Duplicates																					
2099827	Drill Core	0.2	15.1	27.1	199	0.6	1.8	4.7	892	1.66	27.3	7.3	3.4	12	0.6	0.9	<0.1	24	0.42	0.062	23
DUP 2099827	QC	0.1	14.7	26.0	208	0.6	1.8	4.6	892	1.58	26.8	9.7	3.5	12	0.6	1.0	<0.1	24	0.45	0.060	23
2099861	Drill Core	0.2	35.9	7.0	47	0.5	9.6	11.9	489	3.18	22.0	15.5	0.9	73	<0.1	<0.1	0.1	23	1.62	0.022	11
DUP 2099861	QC	0.1	34.2	7.2	44	0.5	8.7	12.3	474	3.12	24.0	13.4	1.0	75	<0.1	0.1	0.1	22	1.62	0.021	11
2099895	Drill Core	<0.1	16.3	7.5	36	2.8	10.9	8.4	493	1.54	6.1	13.9	0.7	54	<0.1	0.1	0.2	5	2.46	0.007	12
DUP 2099895	QC	<0.1	15.6	7.0	31	0.9	10.6	8.7	508	1.53	6.6	11.9	0.8	57	<0.1	0.1	0.1	5	2.69	0.008	12
Reference Materials																					
STD DS9	Standard	12.0	108.2	127.1	303	1.6	40.9	7.7	544	2.28	24.7	109.1	6.1	70	2.4	4.9	6.6	37	0.67	0.080	11
STD DS9	Standard	11.5	110.7	124.7	301	1.6	38.9	7.2	554	2.28	26.0	125.4	5.8	70	2.3	4.6	5.9	37	0.69	0.085	10
STD DS9	Standard	12.2	105.7	129.9	302	1.9	37.9	7.5	545	2.29	26.2	125.6	5.9	66	2.4	4.5	5.9	39	0.72	0.084	11
STD OREAS45EA	Standard	1.6	666.0	14.5	27	0.3	369.4	50.7	404	23.26	9.0	66.7	10.1	2	<0.1	0.3	0.2	268	0.03	0.026	7
STD OREAS45EA	Standard	1.3	638.0	13.6	27	0.3	319.3	48.6	371	20.06	8.8	50.7	10.1	3	<0.1	0.3	0.3	286	0.04	0.027	6
STD OREAS45EA	Standard	1.5	640.3	11.9	29	0.2	356.3	47.2	371	21.30	8.6	46.3	9.1	3	<0.1	0.2	0.2	305	0.03	0.029	6
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.9	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
Prep Wash																					
G1-SMI	Prep Blank	0.1	2.2	6.3	51	<0.1	4.0	4.1	583	1.91	3.0	1.7	4.6	60	<0.1	<0.1	<0.1	33	0.46	0.079	8
G1-SMI	Prep Blank	0.1	2.2	11.1	50	<0.1	3.9	4.2	543	1.77	10.3	1.5	4.5	55	<0.1	<0.1	<0.1	30	0.41	0.084	7



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Report Date:

November 09, 2012

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QUALITY CONTROL REPORT

SMI12000513.1

Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
REP 2099827	QC	3	0.24	44	0.042	<20	0.45	0.023	0.15	0.1	0.04	2.7	<0.1	0.45	3	<0.5	<0.2
2099871	Drill Core	14	0.57	24	0.079	<20	0.97	0.024	0.18	<0.1	<0.01	6.1	<0.1	0.62	5	0.9	<0.2
REP 2099871	QC	14	0.58	24	0.079	<20	0.99	0.025	0.18	<0.1	<0.01	6.6	<0.1	0.65	5	<0.5	<0.2
2099897	Drill Core	5	0.34	13	0.005	<20	0.94	0.023	0.16	<0.1	<0.01	3.0	<0.1	1.76	3	<0.5	<0.2
REP 2099897	QC	5	0.34	13	0.005	<20	0.92	0.023	0.16	<0.1	<0.01	3.1	<0.1	1.73	2	<0.5	<0.2
Core Reject Duplicates																	
2099827	Drill Core	4	0.24	47	0.044	<20	0.53	0.027	0.17	<0.1	0.07	2.6	<0.1	0.46	3	<0.5	<0.2
DUP 2099827	QC	3	0.24	48	0.043	<20	0.48	0.024	0.16	0.1	0.05	2.9	<0.1	0.45	3	<0.5	<0.2
2099861	Drill Core	4	0.41	78	0.003	<20	1.44	0.029	0.24	<0.1	<0.01	2.8	<0.1	1.11	4	<0.5	<0.2
DUP 2099861	QC	4	0.39	73	0.003	<20	1.42	0.029	0.26	<0.1	<0.01	3.2	<0.1	1.19	4	0.6	<0.2
2099895	Drill Core	1	0.56	14	0.011	<20	0.95	0.019	0.21	<0.1	<0.01	1.6	<0.1	0.48	2	<0.5	<0.2
DUP 2099895	QC	2	0.54	15	0.011	<20	0.95	0.019	0.21	<0.1	<0.01	1.7	<0.1	0.48	2	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	117	0.60	309	0.101	<20	0.88	0.077	0.39	2.7	0.22	2.3	5.2	0.16	4	4.8	4.0
STD DS9	Standard	114	0.59	328	0.099	<20	0.90	0.076	0.39	2.6	0.18	2.2	5.0	0.16	4	5.5	4.4
STD DS9	Standard	116	0.61	322	0.105	<20	0.92	0.081	0.39	3.2	0.19	2.6	5.3	0.16	5	4.9	4.6
STD OREAS45EA	Standard	775	0.10	148	0.091	<20	2.95	0.023	0.05	<0.1	<0.01	72.5	<0.1	<0.05	11	<0.5	<0.2
STD OREAS45EA	Standard	759	0.08	146	0.082	<20	2.86	0.017	0.05	<0.1	0.01	75.4	<0.1	<0.05	11	0.5	<0.2
STD OREAS45EA	Standard	776	0.10	135	0.085	<20	2.87	0.013	0.05	<0.1	0.02	73.0	<0.1	<0.05	12	<0.5	<0.2
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																	
G1-SMI	Prep Blank	8	0.58	254	0.121	<20	0.96	0.081	0.48	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	8	0.55	238	0.118	<20	0.92	0.065	0.45	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
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Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 25, 2012
Report Date: November 09, 2012
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CERTIFICATE OF ANALYSIS

SMI12000514.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 45

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	41	Crush, split and pulverize 250 g rock to 200 mesh			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN
RIFL2	1	Split samples by riffle splitter			SMI
1DX1	45	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI12000514.1

Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
G1-SMI	Prep Blank	<0.1	2.6	2.8	49	<0.1	4.0	4.7	588	1.96	<0.5	<0.5	4.7	54	<0.1	<0.1	<0.1	36	0.45	0.079	8
G1-SMI	Prep Blank	<0.1	2.6	2.7	49	<0.1	4.2	4.8	582	1.99	<0.5	<0.5	5.1	54	<0.1	<0.1	<0.1	36	0.46	0.080	8
2099907	Drill Core	0.6	2.5	16.8	23	4.9	0.4	0.6	58	0.45	7.3	307.6	2.3	5	<0.1	0.3	<0.1	3	0.04	0.012	17
2099908	Drill Core	0.4	2.4	28.4	34	0.4	0.4	0.5	70	0.50	6.6	50.4	2.5	6	<0.1	0.2	<0.1	4	0.07	0.021	20
2099909	Drill Core	1.0	3.7	26.3	43	0.6	0.5	0.5	96	0.73	10.9	46.7	3.2	6	<0.1	0.3	<0.1	4	0.07	0.025	31
2099910	Drill Core	1.9	4.8	14.2	52	1.6	0.4	0.6	73	1.12	46.9	77.2	4.2	9	<0.1	0.6	<0.1	6	0.08	0.039	39
2099911	Drill Core	1.9	4.8	10.0	62	1.4	0.7	0.6	109	1.34	32.8	63.0	3.6	8	0.4	0.7	<0.1	8	0.05	0.038	38
2099912	Drill Core	0.7	6.1	10.3	38	1.4	0.2	0.4	88	0.91	49.5	136.5	3.3	13	0.2	0.8	<0.1	5	0.04	0.029	41
2099913	Drill Core	0.5	2.4	8.1	52	0.9	0.2	0.5	90	1.06	40.2	77.2	2.6	7	0.3	0.6	<0.1	5	0.03	0.027	33
2099914 Dup of 2099913	CORE DUP	0.6	2.6	8.9	49	2.7	0.2	0.4	78	0.98	38.5	2864	2.9	8	0.4	0.8	<0.1	5	0.03	0.026	39
2099915	Drill Core	0.7	2.8	17.8	41	1.0	0.4	0.3	120	1.23	37.5	122.4	2.2	12	0.1	0.7	<0.1	5	0.02	0.028	30
2099916	Rock Pulp	4.1	32.0	5.7	47	0.2	22.9	9.1	383	2.44	5.8	328.8	0.9	39	0.2	0.8	<0.1	56	0.78	0.054	4
2099917	Drill Core	1.2	3.3	7.8	55	0.7	0.8	0.7	157	1.14	28.7	61.0	2.8	6	0.3	0.8	<0.1	5	0.04	0.035	35
2099918	Drill Core	0.6	1.9	8.2	83	0.8	0.3	0.9	159	1.13	38.6	45.2	2.1	4	0.7	0.7	<0.1	4	0.07	0.035	25
2099919	Drill Core	0.4	2.4	9.4	101	0.8	0.4	0.8	254	1.12	43.4	115.9	2.0	4	0.3	0.7	<0.1	4	0.08	0.031	24
2099920	Drill Core	0.5	2.3	9.3	83	1.0	0.3	0.7	249	1.07	48.8	104.6	1.9	3	0.4	0.8	<0.1	4	0.06	0.031	25
2099921	Drill Core	0.5	2.4	10.1	97	0.8	0.3	0.5	194	1.09	62.8	38.1	2.1	5	0.6	0.9	<0.1	4	0.05	0.035	28
2099922	Drill Core	0.4	1.7	8.3	74	0.6	0.1	0.5	146	0.90	34.3	48.6	2.1	6	0.5	0.9	<0.1	4	0.06	0.034	28
2099923	Drill Core	0.3	1.5	7.4	65	0.5	0.2	0.5	152	0.86	23.9	34.1	1.5	6	0.6	0.8	<0.1	3	0.06	0.030	22
2099924	Rock Pulp	25.3	74.9	20.7	138	1.7	73.5	7.9	292	2.66	647.5	49.1	1.8	33	1.9	8.8	4.2	51	1.99	0.081	2
2099925	Drill Core	0.4	2.1	9.5	123	0.5	0.4	1.0	639	1.13	18.2	157.8	2.2	5	0.6	0.6	<0.1	5	0.10	0.038	34
2099926	Drill Core	0.2	1.7	9.1	92	0.3	0.3	0.7	302	1.10	15.0	16.7	2.2	5	0.2	1.0	<0.1	4	0.08	0.031	31
2099927	Drill Core	0.2	1.2	9.0	68	0.2	0.2	0.5	319	0.93	12.2	3.9	2.5	6	0.3	1.2	<0.1	2	0.11	0.036	40
2099928	Drill Core	0.2	1.0	7.1	98	0.2	0.3	0.8	434	0.83	5.8	5.1	2.3	7	0.3	0.5	<0.1	2	0.12	0.038	38
2099929	Drill Core	0.2	1.7	6.2	107	0.1	0.3	0.7	354	0.85	7.1	2.7	2.9	7	0.2	1.2	<0.1	2	0.12	0.044	43
2099930	Drill Core	0.2	0.9	6.0	71	0.1	0.3	0.5	241	0.70	5.3	1.6	2.6	7	0.2	0.9	<0.1	<2	0.11	0.033	43
2099931	Rock Pulp	2.4	23.4	2.7	40	0.2	20.4	8.8	380	2.22	3.9	<0.5	1.0	40	0.2	0.3	<0.1	54	0.78	0.057	4
2099932	Drill Core	0.1	0.9	4.9	79	<0.1	0.3	0.6	355	0.72	3.9	<0.5	2.8	7	<0.1	1.1	<0.1	<2	0.12	0.044	45
2099933	Drill Core	0.2	1.3	9.0	135	0.2	0.5	1.1	796	1.15	11.9	4.3	2.5	7	0.3	1.0	<0.1	3	0.12	0.038	35
2099934	Drill Core	<0.1	1.2	6.7	132	0.2	0.4	1.1	657	1.04	11.8	3.5	2.7	8	0.2	0.9	<0.1	3	0.14	0.045	44



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CERTIFICATE OF ANALYSIS

SMI12000514.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	7	0.59	238	0.128	<20	0.96	0.078	0.48	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5
G1-SMI	Prep Blank	7	0.60	237	0.132	<20	0.96	0.074	0.47	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5
2099907	Drill Core	<1	0.02	17	0.001	<20	0.23	0.002	0.23	0.6	0.15	0.8	<0.1	<0.05	<1	<0.5
2099908	Drill Core	2	0.03	24	<0.001	<20	0.31	0.003	0.26	0.1	0.23	0.8	<0.1	<0.05	1	<0.5
2099909	Drill Core	<1	0.04	20	0.002	<20	0.35	0.003	0.26	<0.1	0.45	0.9	<0.1	<0.05	2	<0.5
2099910	Drill Core	1	0.03	38	0.003	<20	0.36	0.004	0.28	<0.1	0.76	1.2	0.1	0.09	1	<0.5
2099911	Drill Core	<1	0.03	31	0.003	<20	0.37	0.013	0.27	<0.1	1.14	1.4	<0.1	0.10	2	<0.5
2099912	Drill Core	2	0.02	37	0.003	<20	0.31	0.014	0.31	<0.1	0.39	1.1	<0.1	0.15	1	<0.5
2099913	Drill Core	<1	0.02	34	0.006	<20	0.33	0.021	0.24	0.1	1.54	1.2	<0.1	0.38	1	<0.5
2099914 Dup of 2099913	CORE DUP	<1	0.02	34	0.006	<20	0.31	0.018	0.23	0.2	1.66	1.2	<0.1	0.32	1	<0.5
2099915	Drill Core	1	0.02	85	0.009	<20	0.28	0.029	0.25	0.6	1.96	1.1	<0.1	0.23	1	<0.5
2099916	Rock Pulp	31	0.72	94	0.114	<20	1.48	0.080	0.12	10.9	0.05	4.6	<0.1	<0.05	5	<0.5
2099917	Drill Core	<1	0.03	54	0.014	<20	0.34	0.026	0.19	0.4	0.49	1.4	<0.1	0.17	1	<0.5
2099918	Drill Core	<1	0.02	29	0.012	<20	0.33	0.024	0.23	0.7	0.80	1.3	<0.1	0.55	1	<0.5
2099919	Drill Core	<1	0.03	29	0.021	<20	0.32	0.026	0.21	1.0	0.97	1.2	<0.1	0.61	1	<0.5
2099920	Drill Core	<1	0.03	29	0.019	<20	0.31	0.025	0.21	0.8	0.53	1.2	0.1	0.50	1	<0.5
2099921	Drill Core	<1	0.03	33	0.019	<20	0.33	0.022	0.22	0.6	0.15	1.1	0.1	0.34	1	<0.5
2099922	Drill Core	<1	0.03	35	0.018	<20	0.31	0.026	0.23	0.6	0.12	1.0	<0.1	0.26	1	<0.5
2099923	Drill Core	<1	0.02	27	0.013	<20	0.25	0.014	0.16	0.5	0.16	0.9	<0.1	0.35	<1	<0.5
2099924	Rock Pulp	20	0.85	108	0.001	<20	0.26	0.002	0.17	1.7	5.47	3.1	2.6	1.84	<1	5.5
2099925	Drill Core	<1	0.05	38	0.014	<20	0.39	0.025	0.25	0.6	0.19	1.1	0.1	0.31	1	<0.5
2099926	Drill Core	1	0.04	34	0.018	<20	0.33	0.023	0.26	1.0	0.19	1.1	<0.1	0.26	1	<0.5
2099927	Drill Core	<1	0.04	25	0.009	<20	0.30	0.015	0.26	1.1	0.09	0.9	<0.1	0.16	1	<0.5
2099928	Drill Core	1	0.06	33	0.007	<20	0.41	0.022	0.30	0.8	0.10	0.9	<0.1	0.20	1	<0.5
2099929	Drill Core	<1	0.05	22	0.016	<20	0.33	0.024	0.22	1.1	0.12	0.9	<0.1	0.10	1	<0.5
2099930	Drill Core	<1	0.04	32	0.016	<20	0.30	0.019	0.24	1.3	0.10	0.9	<0.1	0.07	<1	<0.5
2099931	Rock Pulp	27	0.71	98	0.122	<20	1.46	0.084	0.13	8.2	0.02	4.5	<0.1	<0.05	5	<0.5
2099932	Drill Core	<1	0.05	26	0.010	<20	0.33	0.018	0.26	1.2	0.05	0.8	<0.1	0.07	<1	<0.5
2099933	Drill Core	<1	0.09	33	0.012	<20	0.38	0.019	0.24	0.9	0.05	0.8	<0.1	0.20	2	<0.5
2099934	Drill Core	<1	0.09	32	0.008	<20	0.43	0.024	0.25	0.6	0.10	1.0	<0.1	0.15	2	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
2099935	Drill Core	0.1	1.1	7.3	128	0.4	0.3	1.0	524	1.13	20.2	4.6	2.8	7	0.6	0.9	<0.1	3	0.12	0.037	33
2099936	Drill Core	0.1	1.0	11.4	102	0.2	0.4	0.8	581	1.00	11.0	1.6	4.4	8	0.3	1.7	<0.1	2	0.12	0.043	43
2099937	Drill Core	0.3	1.3	6.0	78	<0.1	0.1	0.7	524	0.96	5.3	4.7	5.0	8	0.3	1.5	<0.1	<2	0.12	0.047	49
2099938	Drill Core	0.2	1.5	9.5	82	<0.1	0.2	0.8	651	0.98	6.7	22.1	5.0	10	<0.1	1.6	<0.1	2	0.14	0.049	48
2099939	Drill Core	<0.1	1.7	12.5	72	0.1	0.5	0.8	799	1.03	4.8	0.9	4.8	11	0.4	2.5	<0.1	<2	0.13	0.042	43
2099940	Drill Core	0.2	1.6	7.0	51	<0.1	0.4	0.5	380	0.75	2.7	4.4	4.7	11	0.2	0.9	<0.1	<2	0.13	0.040	48
2099941	Drill Core	0.2	1.9	12.6	50	<0.1	0.9	0.6	484	1.05	2.7	1.4	5.0	12	<0.1	1.5	<0.1	<2	0.13	0.041	46
2099942	Drill Core	0.2	5.2	10.3	59	<0.1	0.2	0.9	630	0.85	3.3	1.4	4.6	15	0.4	5.5	<0.1	<2	0.14	0.039	47
2099943	Drill Core	0.1	6.2	12.6	165	0.5	0.3	1.9	1545	1.44	9.2	1.7	3.2	14	1.1	13.4	<0.1	<2	0.13	0.037	36
2099944	Drill Core	0.2	3.2	8.6	101	0.2	0.4	0.7	924	1.32	6.0	<0.5	2.8	15	0.7	1.5	<0.1	<2	0.13	0.046	37
2099945	Drill Core	0.3	2.0	8.0	82	0.2	0.2	0.6	1198	1.35	5.8	1.4	2.8	14	1.2	2.5	<0.1	2	0.13	0.045	38
2099946	Drill Core	0.2	1.7	8.9	102	0.1	0.3	0.7	911	1.26	6.3	<0.5	2.8	16	0.4	3.6	<0.1	<2	0.14	0.042	39
2099947	Drill Core	0.2	2.6	9.0	80	0.2	0.1	0.6	1327	1.28	8.2	0.5	2.9	15	0.5	6.0	<0.1	<2	0.13	0.045	36
2099948	Drill Core	<0.1	0.5	6.0	28	0.1	<0.1	0.3	523	0.82	6.3	0.7	2.3	26	0.1	1.5	<0.1	<2	0.16	0.039	38
2099949	Drill Core	2.1	11.0	32.2	39	0.5	1.4	2.3	575	1.75	10.5	3.0	4.6	37	0.4	2.1	0.4	2	0.22	0.062	23
2099950	Drill Core	0.3	1.5	11.9	59	<0.1	0.3	0.5	391	0.93	1.2	1.2	4.9	26	0.2	0.3	<0.1	<2	0.17	0.040	44
2099951	Drill Core	0.3	1.2	14.0	63	<0.1	0.8	0.6	572	1.31	1.6	<0.5	5.3	24	0.6	0.5	<0.1	<2	0.18	0.049	50



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099935	Drill Core	<1	0.08	39	0.008	<20	0.37	0.024	0.23	0.6	0.13	1.0	<0.1	0.35	1	<0.5
2099936	Drill Core	1	0.07	33	0.017	<20	0.36	0.026	0.22	1.1	0.08	1.1	<0.1	0.14	1	<0.5
2099937	Drill Core	<1	0.07	26	0.019	<20	0.33	0.033	0.20	1.1	0.06	1.0	<0.1	0.06	1	0.6
2099938	Drill Core	<1	0.08	29	0.023	<20	0.38	0.029	0.24	1.3	0.06	1.0	<0.1	0.07	1	<0.5
2099939	Drill Core	<1	0.07	49	0.028	<20	0.33	0.008	0.25	3.1	0.02	0.7	<0.1	<0.05	<1	<0.5
2099940	Drill Core	1	0.06	35	0.012	<20	0.34	0.021	0.27	1.3	0.03	0.4	<0.1	<0.05	<1	<0.5
2099941	Drill Core	2	0.07	33	0.010	<20	0.30	0.021	0.22	0.8	<0.01	0.6	<0.1	<0.05	<1	<0.5
2099942	Drill Core	<1	0.07	47	0.037	<20	0.37	0.027	0.27	1.5	<0.01	0.6	<0.1	<0.05	<1	<0.5
2099943	Drill Core	<1	0.08	52	0.079	<20	0.34	0.020	0.24	6.2	<0.01	0.8	<0.1	0.19	1	<0.5
2099944	Drill Core	1	0.07	41	0.047	<20	0.43	0.039	0.29	3.4	0.02	1.0	<0.1	0.15	2	<0.5
2099945	Drill Core	<1	0.08	31	0.059	<20	0.36	0.029	0.24	4.3	<0.01	0.9	<0.1	0.11	1	<0.5
2099946	Drill Core	<1	0.08	36	0.028	<20	0.40	0.026	0.28	2.2	<0.01	0.9	<0.1	0.05	1	<0.5
2099947	Drill Core	<1	0.06	35	0.068	<20	0.31	0.027	0.23	5.1	<0.01	0.8	<0.1	0.09	<1	<0.5
2099948	Drill Core	<1	0.04	36	0.007	<20	0.33	0.009	0.30	0.6	<0.01	0.4	<0.1	<0.05	<1	<0.5
2099949	Drill Core	1	0.03	1058	0.015	<20	0.32	0.012	0.28	1.6	0.03	1.4	<0.1	<0.05	<1	<0.5
2099950	Drill Core	2	0.05	145	0.005	<20	0.40	0.029	0.29	0.3	<0.01	0.4	<0.1	<0.05	<1	<0.5
2099951	Drill Core	2	0.09	410	0.011	<20	0.43	0.033	0.26	0.4	<0.01	0.7	<0.1	<0.05	1	<0.5



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QUALITY CONTROL REPORT

SMI12000514.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
REP 2099925	QC	0.4	1.9	8.3	117	0.5	0.4	1.0	646	1.14	17.9	73.0	2.2	5	0.5	0.6	<0.1	4	0.10	0.036	33
2099951	Drill Core	0.3	1.2	14.0	63	<0.1	0.8	0.6	572	1.31	1.6	<0.5	5.3	24	0.6	0.5	<0.1	<2	0.18	0.049	50
REP 2099951	QC	0.3	1.2	15.0	66	<0.1	0.3	0.8	564	1.28	1.6	<0.5	5.6	26	0.7	0.4	<0.1	<2	0.19	0.049	53
Core Reject Duplicates																					
2099925	Drill Core	0.4	2.1	9.5	123	0.5	0.4	1.0	639	1.13	18.2	157.8	2.2	5	0.6	0.6	<0.1	5	0.10	0.038	34
DUP 2099925	QC	0.3	1.6	9.1	118	0.4	0.3	1.1	645	1.10	17.6	29.6	2.1	5	0.5	0.6	<0.1	4	0.10	0.037	33
Reference Materials																					
STD DS9	Standard	12.5	105.1	126.1	309	1.9	37.7	7.5	566	2.28	26.3	108.4	6.2	69	2.2	4.8	6.3	38	0.69	0.081	11
STD DS9	Standard	12.9	107.0	127.9	306	1.8	40.4	7.5	586	2.38	24.2	90.1	6.4	77	2.1	4.5	6.4	39	0.73	0.082	13
STD OREAS45EA	Standard	1.5	655.7	14.9	28	0.3	366.3	50.5	377	21.32	9.6	57.2	9.9	4	<0.1	0.2	0.3	303	0.04	0.026	6
STD OREAS45EA	Standard	1.4	708.8	14.2	28	0.3	391.9	53.1	414	23.49	9.8	51.5	10.1	4	<0.1	0.2	0.2	279	0.04	0.027	7
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
Prep Wash																					
G1-SMI	Prep Blank	<0.1	2.6	2.8	49	<0.1	4.0	4.7	588	1.96	<0.5	<0.5	4.7	54	<0.1	<0.1	<0.1	36	0.45	0.079	8
G1-SMI	Prep Blank	<0.1	2.6	2.7	49	<0.1	4.2	4.8	582	1.99	<0.5	<0.5	5.1	54	<0.1	<0.1	<0.1	36	0.46	0.080	8



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																
REP 2099925	QC	<1	0.05	35	0.013	<20	0.37	0.025	0.24	0.5	0.16	1.1	<0.1	0.30	2	<0.2
2099951	Drill Core	2	0.09	410	0.011	<20	0.43	0.033	0.26	0.4	<0.01	0.7	<0.1	<0.05	1	<0.2
REP 2099951	QC	<1	0.09	441	0.011	<20	0.45	0.035	0.26	0.4	<0.01	0.7	<0.1	<0.05	1	<0.2
Core Reject Duplicates																
2099925	Drill Core	<1	0.05	38	0.014	<20	0.39	0.025	0.25	0.6	0.19	1.1	0.1	0.31	1	<0.2
DUP 2099925	QC	<1	0.05	35	0.013	<20	0.36	0.022	0.23	0.6	0.15	1.1	<0.1	0.31	1	<0.2
Reference Materials																
STD DS9	Standard	120	0.60	323	0.105	<20	0.91	0.081	0.38	2.4	0.19	2.3	5.3	0.16	4	5.0
STD DS9	Standard	114	0.63	321	0.114	<20	0.98	0.088	0.40	3.0	0.21	2.3	5.4	0.16	5	6.0
STD OREAS45EA	Standard	795	0.09	143	0.091	<20	2.90	0.015	0.05	<0.1	0.01	79.1	<0.1	<0.05	12	<0.2
STD OREAS45EA	Standard	830	0.11	142	0.089	<20	3.20	0.024	0.05	<0.1	0.01	76.2	<0.1	<0.05	12	<0.2
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.02
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	0.11
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.2
Prep Wash																
G1-SMI	Prep Blank	7	0.59	238	0.128	<20	0.96	0.078	0.48	<0.1	<0.01	2.7	0.3	<0.05	5	<0.2
G1-SMI	Prep Blank	7	0.60	237	0.132	<20	0.96	0.074	0.47	<0.1	<0.01	2.6	0.3	<0.05	5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Venerable Ventures Ltd.**
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Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 29, 2012
Report Date: November 08, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI12000520.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 46

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	42	Crush, split and pulverize 250 g rock to 200 mesh			SMI
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN
1DX1	46	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

Trout Property

Report Date:

November 08, 2012

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Part:

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CERTIFICATE OF ANALYSIS

SMI12000520.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
G1-SMI	Prep Blank	N.A.	<0.1	1.7	2.6	47	<0.1	3.9	4.0	563	1.84	<0.5	0.6	5.0	59	<0.1	<0.1	<0.1	34	0.47
G1-SMI	Prep Blank	N.A.	<0.1	1.4	2.6	45	<0.1	3.8	4.2	545	1.87	<0.5	0.5	4.6	58	<0.1	<0.1	<0.1	34	0.52
2099952	Drill Core	1.35	0.2	5.7	38.7	89	1.5	2.2	7.3	1367	3.62	58.1	43.8	2.1	13	0.3	1.0	<0.1	55	0.33
2099953	Drill Core	3.26	<0.1	2.9	35.6	129	0.8	1.5	4.8	1046	2.78	36.3	27.0	2.6	16	0.8	1.0	<0.1	42	0.28
2099954	Drill Core	4.54	0.1	12.6	21.9	122	0.7	0.9	3.2	312	1.48	25.7	18.9	2.7	8	0.2	0.4	<0.1	10	0.17
2099955	Drill Core	1.68	0.2	4.8	10.0	41	0.9	0.8	1.1	69	1.22	18.3	279.3	3.2	16	<0.1	0.7	<0.1	5	0.07
2099956	Drill Core	1.83	0.2	12.7	12.4	61	0.6	1.4	3.0	357	1.59	21.3	34.3	2.3	12	0.1	0.6	<0.1	10	0.16
2099957	Drill Core	3.96	0.3	7.4	12.4	71	0.3	1.5	3.4	478	1.66	13.2	22.4	2.3	10	0.5	0.4	<0.1	8	0.15
2099958	Drill Core	6.28	0.9	8.1	13.5	85	1.0	1.4	2.6	290	1.72	35.4	78.3	1.9	20	0.4	0.6	<0.1	6	0.11
2099959	Drill Core	6.87	1.3	7.7	14.7	59	1.4	0.6	0.8	108	1.03	45.9	62.1	3.1	8	0.3	0.8	<0.1	3	0.09
2099960	Rock Pulp	0.11	2.2	22.1	2.5	39	0.2	19.7	7.9	372	2.20	4.0	6.2	0.9	39	0.1	0.1	<0.1	55	0.81
2099961	Drill Core	4.61	1.5	5.5	12.6	74	1.6	0.4	0.9	130	1.12	54.0	398.9	3.0	4	0.4	0.8	<0.1	3	0.09
2099962	Drill Core	7.03	0.3	4.0	14.2	84	2.3	0.6	0.8	175	1.15	71.7	513.3	2.7	5	1.5	1.1	<0.1	3	0.09
2099963 Dup of 2099962	CORE DUP	N.A.	0.4	4.0	16.0	83	2.6	0.8	0.8	178	1.19	78.6	366.8	2.9	5	1.3	1.2	<0.1	3	0.09
2099964	Drill Core	5.84	0.4	4.7	11.2	79	5.2	1.1	1.3	183	1.14	75.2	494.3	3.0	6	1.0	0.9	<0.1	4	0.10
2099965	Rock Pulp	0.11	24.9	72.2	20.6	132	1.6	72.3	7.6	301	2.75	661.2	68.5	1.8	31	1.9	6.9	4.3	51	2.09
2099966	Drill Core	5.73	0.6	5.7	11.6	72	2.3	0.5	0.9	106	1.11	38.8	303.9	2.0	5	0.5	0.7	<0.1	4	0.09
2099967	Drill Core	6.79	0.8	7.3	13.2	78	4.2	0.9	0.9	235	1.09	44.8	296.2	2.6	7	0.5	0.9	<0.1	4	0.09
2099968	Drill Core	8.10	0.2	5.7	12.8	64	1.1	0.6	0.9	299	0.86	32.4	77.8	2.7	8	0.5	0.6	<0.1	4	0.11
2099969	Rock Pulp	0.11	4.4	31.2	5.5	45	0.2	23.0	9.0	396	2.41	6.1	291.9	0.9	38	0.2	0.7	0.1	56	0.79
2099970	Drill Core	6.37	<0.1	9.1	13.2	49	0.4	0.1	0.6	348	0.66	12.9	43.4	2.7	10	0.3	0.2	0.1	2	0.14
2099971	Drill Core	6.18	1.6	128.5	14.2	87	35.7	18.0	2.6	433	1.37	19.1	78.7	2.0	12	0.3	0.4	<0.1	8	0.16
2099972	Drill Core	6.84	1.1	23.4	16.7	63	3.6	5.2	2.5	431	1.42	40.9	47.8	2.1	10	0.8	0.8	<0.1	6	0.13
2099973	Drill Core	6.62	0.1	2.8	17.7	115	0.5	0.7	1.5	667	1.50	20.3	21.5	2.4	11	0.3	0.6	<0.1	4	0.16
2099974	Drill Core	5.80	0.4	16.6	32.7	125	0.9	1.5	2.9	553	1.93	65.6	20.0	2.1	12	0.8	1.2	<0.1	7	0.18
2099975	Drill Core	2.96	1.2	6.0	10.8	68	0.5	0.7	0.6	110	1.08	26.7	35.5	2.7	6	0.4	0.6	<0.1	4	0.10
2099976	Drill Core	5.56	0.7	3.1	14.8	82	0.6	0.7	0.6	130	1.03	20.6	16.3	2.5	6	0.8	0.6	<0.1	4	0.09
2099977	Drill Core	7.34	1.1	4.0	15.6	92	0.8	1.2	0.4	163	1.06	21.3	81.8	3.0	6	0.6	0.7	<0.1	4	0.10
2099978	Drill Core	5.88	0.8	5.0	14.0	83	1.2	0.9	0.6	158	1.12	24.4	23.5	2.6	6	0.4	0.7	<0.1	3	0.10
2099979	Drill Core	3.84	0.4	3.6	20.8	90	0.8	0.8	0.7	222	1.27	38.6	28.7	2.7	6	0.8	1.1	<0.1	4	0.09



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Project: Trout Property
Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000520.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
G1-SMI	Prep Blank	9	10	0.56	224	0.125	<20	1.03	0.093	0.50	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5
G1-SMI	Prep Blank	8	7	0.59	214	0.126	<20	1.02	0.093	0.50	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5
2099952	Drill Core	17	2	0.22	35	0.007	<20	1.04	0.012	0.23	<0.1	0.02	4.8	0.1	2.08	5	<0.5
2099953	Drill Core	19	1	0.20	52	0.009	<20	0.84	0.015	0.22	<0.1	0.02	3.8	<0.1	1.45	4	<0.5
2099954	Drill Core	25	1	0.13	43	0.005	<20	0.53	0.014	0.26	0.2	0.02	2.2	<0.1	0.91	2	<0.5
2099955	Drill Core	23	1	0.05	36	0.009	<20	0.28	0.030	0.19	<0.1	0.03	1.1	<0.1	0.64	1	<0.5
2099956	Drill Core	22	1	0.14	35	0.006	<20	0.54	0.027	0.20	0.1	<0.01	1.9	<0.1	0.73	2	<0.5
2099957	Drill Core	22	<1	0.15	35	0.005	<20	0.55	0.019	0.23	0.2	<0.01	1.6	<0.1	0.68	2	<0.5
2099958	Drill Core	21	2	0.11	37	0.005	<20	0.41	0.022	0.23	<0.1	0.26	1.3	<0.1	1.28	1	<0.5
2099959	Drill Core	28	<1	0.04	27	0.003	<20	0.29	0.014	0.24	<0.1	0.05	1.0	<0.1	0.58	1	<0.5
2099960	Rock Pulp	4	26	0.70	91	0.115	<20	1.50	0.080	0.13	8.2	0.02	4.3	<0.1	<0.05	5	<0.5
2099961	Drill Core	27	3	0.04	21	0.004	<20	0.30	0.016	0.23	<0.1	0.03	0.7	<0.1	0.72	1	<0.5
2099962	Drill Core	26	<1	0.05	27	0.008	<20	0.29	0.018	0.21	<0.1	0.02	0.7	<0.1	0.80	<1	<0.5
2099963 Dup of 2099962	CORE DUP	27	<1	0.05	30	0.008	<20	0.30	0.019	0.21	<0.1	0.04	0.8	<0.1	0.81	<1	<0.5
2099964	Drill Core	28	3	0.06	24	0.005	<20	0.33	0.020	0.22	<0.1	0.03	0.9	<0.1	0.80	1	<0.5
2099965	Rock Pulp	2	19	0.84	47	<0.001	<20	0.25	0.001	0.17	1.7	5.52	2.8	2.1	1.90	<1	4.5
2099966	Drill Core	19	<1	0.04	32	0.011	<20	0.28	0.018	0.22	<0.1	0.06	0.7	0.1	0.55	<1	<0.5
2099967	Drill Core	22	3	0.07	40	0.008	<20	0.34	0.019	0.23	0.2	0.20	0.8	<0.1	0.61	1	<0.5
2099968	Drill Core	23	<1	0.06	31	0.007	<20	0.32	0.016	0.22	<0.1	0.04	0.8	<0.1	0.56	1	<0.5
2099969	Rock Pulp	4	30	0.71	90	0.108	<20	1.50	0.075	0.12	10.1	0.06	4.4	<0.1	<0.05	5	<0.5
2099970	Drill Core	22	<1	0.10	24	0.002	<20	0.36	0.011	0.24	<0.1	0.01	0.5	<0.1	0.32	1	<0.5
2099971	Drill Core	20	4	0.13	28	0.007	<20	0.39	0.011	0.23	98.3	0.05	1.5	<0.1	0.63	1	<0.5
2099972	Drill Core	18	2	0.12	30	0.007	<20	0.38	0.023	0.21	37.7	0.06	1.3	<0.1	1.08	2	<0.5
2099973	Drill Core	24	<1	0.16	24	0.006	<20	0.46	0.027	0.22	0.4	<0.01	1.0	<0.1	1.08	2	<0.5
2099974	Drill Core	28	1	0.11	32	0.007	<20	0.43	0.015	0.24	0.2	0.02	1.9	<0.1	1.59	1	<0.5
2099975	Drill Core	25	<1	0.05	35	0.007	<20	0.32	0.026	0.21	0.1	0.03	1.0	<0.1	0.23	1	<0.5
2099976	Drill Core	25	3	0.05	40	0.008	<20	0.29	0.023	0.20	0.2	0.04	0.6	<0.1	0.56	<1	<0.5
2099977	Drill Core	31	2	0.06	102	0.006	<20	0.32	0.020	0.19	0.5	0.04	0.8	<0.1	0.26	1	<0.5
2099978	Drill Core	27	3	0.05	43	0.007	<20	0.36	0.028	0.19	1.4	0.03	0.8	<0.1	0.40	1	<0.5
2099979	Drill Core	25	<1	0.06	71	0.008	<20	0.31	0.025	0.18	0.3	0.02	0.9	<0.1	0.84	<1	<0.5



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Part: 1 of 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
2099980	Drill Core	7.17	0.5	3.0	13.4	102	0.9	0.6	0.7	259	1.20	42.0	276.7	3.3	7	0.7	0.8	<0.1	3	0.10
2099981	Drill Core	4.88	0.5	5.8	18.3	110	1.0	0.7	0.6	270	1.26	54.8	74.4	2.4	6	0.9	1.0	<0.1	4	0.09
2099982	Drill Core	6.05	0.5	4.9	51.2	99	1.4	0.5	0.7	292	1.33	72.6	125.7	1.9	6	0.9	1.4	<0.1	4	0.08
2099983	Drill Core	4.35	1.2	6.9	33.2	99	1.6	0.7	0.6	121	1.38	116.8	93.5	2.2	7	1.1	1.5	<0.1	4	0.08
2099984	Drill Core	5.49	0.6	7.7	28.2	143	1.4	0.9	1.0	243	1.41	150.5	79.2	1.9	8	1.1	1.5	<0.1	4	0.09
2099985	Drill Core	3.55	1.9	10.3	29.1	155	2.2	1.2	1.4	151	1.87	195.9	123.9	1.9	8	1.4	2.4	<0.1	3	0.09
2099986	Drill Core	5.23	0.5	9.7	13.5	69	0.9	1.4	0.6	136	0.91	88.9	69.6	1.8	7	0.2	1.4	<0.1	<2	0.10
2099987	Drill Core	1.22	1.1	7.4	16.3	94	1.2	1.1	0.9	159	1.16	74.8	44.9	2.3	7	0.5	1.0	<0.1	3	0.09
2099988	Drill Core	4.56	0.3	13.5	14.2	107	1.1	2.5	1.5	196	1.02	98.5	211.5	1.5	7	0.7	0.9	<0.1	4	0.10
2099989	Drill Core	7.02	0.4	9.1	12.4	112	0.6	0.4	1.4	309	0.76	51.1	52.9	2.2	7	0.8	0.9	<0.1	3	0.11
2099990	Drill Core	6.67	11.3	39.1	14.8	111	1.3	0.9	1.8	148	0.69	60.8	215.5	2.0	8	0.7	1.0	<0.1	2	0.11
2099991	Drill Core	6.17	1.7	6.9	16.5	114	0.5	0.9	1.3	236	0.65	42.8	54.2	2.2	10	0.8	0.8	<0.1	<2	0.12
2099992	Drill Core	4.79	2.0	8.9	23.5	57	0.5	1.2	0.8	74	0.52	28.4	66.6	2.8	11	0.6	0.8	<0.1	<2	0.05
2099993	Drill Core	4.95	3.6	14.0	18.5	117	0.9	5.0	10.3	662	1.95	71.8	59.7	1.6	35	1.0	0.9	<0.1	21	0.28
2099994	Drill Core	5.63	0.1	57.5	5.2	96	0.4	12.8	24.1	1205	4.96	38.7	12.7	1.7	92	0.1	0.2	<0.1	64	1.31
2099995	Drill Core	6.26	<0.1	43.3	3.8	51	<0.1	7.9	16.9	1582	3.79	2.0	4.7	1.4	177	<0.1	<0.1	<0.1	89	3.01
2099996	Drill Core	7.23	0.3	66.1	4.5	53	<0.1	8.4	17.3	1178	3.82	4.5	<0.5	1.4	130	<0.1	0.1	<0.1	83	2.19
2099997	Drill Core	6.70	0.1	76.5	3.1	56	0.1	8.6	19.2	1345	4.39	5.2	<0.5	1.5	121	<0.1	0.1	<0.1	88	2.99



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Project: Trout Property
Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000520.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099980	Drill Core	31	2	0.07	44	0.008	<20	0.37	0.026	0.19	0.2	0.02	0.8	<0.1	0.50	1	<0.5
2099981	Drill Core	21	<1	0.06	48	0.010	<20	0.32	0.022	0.17	0.3	0.02	0.8	<0.1	0.78	1	<0.5
2099982	Drill Core	21	4	0.07	52	0.005	<20	0.32	0.017	0.19	0.5	0.03	0.6	<0.1	0.87	1	<0.5
2099983	Drill Core	25	<1	0.04	49	0.008	<20	0.29	0.023	0.18	0.2	0.03	0.7	<0.1	0.67	<1	<0.5
2099984	Drill Core	24	2	0.06	47	0.013	<20	0.37	0.024	0.22	0.5	0.02	0.9	<0.1	0.86	1	<0.5
2099985	Drill Core	23	3	0.04	41	0.017	<20	0.31	0.022	0.20	1.7	0.04	1.1	<0.1	1.04	1	0.7
2099986	Drill Core	19	4	0.04	40	0.010	<20	0.29	0.010	0.24	1.0	0.03	0.6	<0.1	0.55	<1	<0.5
2099987	Drill Core	21	3	0.06	99	0.005	<20	0.30	0.014	0.21	0.7	0.03	0.9	<0.1	0.40	1	0.5
2099988	Drill Core	16	5	0.08	20	0.003	<20	0.37	0.004	0.25	0.2	0.04	1.5	<0.1	0.67	1	<0.5
2099989	Drill Core	21	<1	0.09	21	0.004	<20	0.38	0.011	0.25	0.3	0.04	0.6	<0.1	0.46	2	<0.5
2099990	Drill Core	27	2	0.07	22	0.002	<20	0.34	0.013	0.24	0.3	0.06	0.7	<0.1	0.48	1	<0.5
2099991	Drill Core	23	2	0.07	19	0.001	<20	0.34	0.008	0.25	0.2	0.07	0.4	<0.1	0.38	1	<0.5
2099992	Drill Core	21	4	0.03	33	<0.001	<20	0.26	0.009	0.25	0.3	0.02	0.3	<0.1	0.24	<1	<0.5
2099993	Drill Core	14	6	0.44	24	<0.001	<20	0.92	0.005	0.23	<0.1	0.04	2.4	<0.1	0.80	3	<0.5
2099994	Drill Core	18	11	1.43	84	0.005	<20	2.34	0.015	0.20	0.1	0.01	5.4	<0.1	1.07	5	<0.5
2099995	Drill Core	17	10	1.46	58	0.024	<20	2.22	0.028	0.15	<0.1	<0.01	5.5	<0.1	<0.05	5	<0.5
2099996	Drill Core	17	11	1.34	77	0.068	<20	2.26	0.032	0.16	<0.1	<0.01	6.5	<0.1	<0.05	5	<0.5
2099997	Drill Core	19	10	1.38	226	0.084	<20	2.23	0.025	0.16	<0.1	<0.01	6.4	<0.1	<0.05	5	<0.5



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QUALITY CONTROL REPORT

SMI12000520.1

	Method Analyte Unit MDL	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
2099957	Drill Core	3.96	0.3	7.4	12.4	71	0.3	1.5	3.4	478	1.66	13.2	22.4	2.3	10	0.5	0.4	<0.1	8	0.15	0.039
REP 2099957	QC		0.3	7.7	12.7	71	0.4	1.6	3.7	488	1.71	13.8	41.8	2.3	10	0.7	0.4	<0.1	9	0.15	0.040
2099992	Drill Core	4.79	2.0	8.9	23.5	57	0.5	1.2	0.8	74	0.52	28.4	66.6	2.8	11	0.6	0.8	<0.1	<2	0.05	0.013
REP 2099992	QC		1.8	8.8	23.7	56	0.5	0.9	0.8	75	0.53	28.7	47.5	2.9	11	0.7	0.7	<0.1	<2	0.05	0.014
Core Reject Duplicates																					
2099970	Drill Core	6.37	<0.1	9.1	13.2	49	0.4	0.1	0.6	348	0.66	12.9	43.4	2.7	10	0.3	0.2	0.1	2	0.14	0.034
DUP 2099970	QC	N.A.	<0.1	8.3	13.8	50	0.5	0.4	0.6	355	0.68	11.9	95.0	2.8	10	0.3	0.1	0.1	2	0.14	0.032
Reference Materials																					
STD DS9	Standard		11.9	104.3	129.3	301	1.7	38.2	6.9	556	2.26	26.0	131.1	6.1	69	2.2	4.3	6.4	37	0.70	0.078
STD DS9	Standard		12.6	110.6	132.3	298	1.7	40.2	7.7	563	2.27	25.1	91.0	6.2	63	2.3	4.3	5.5	37	0.66	0.078
STD OREAS45EA	Standard		1.4	674.7	14.2	30	0.3	372.4	51.1	408	21.62	8.9	52.2	10.2	4	<0.1	0.2	0.2	314	0.03	0.029
STD OREAS45EA	Standard		1.5	711.8	14.8	33	0.3	400.1	56.1	426	25.19	10.0	74.7	10.9	4	<0.1	0.2	0.3	284	0.04	0.030
STD OREAS45EA Expected			1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	N.A.	<0.1	1.7	2.6	47	<0.1	3.9	4.0	563	1.84	<0.5	0.6	5.0	59	<0.1	<0.1	<0.1	34	0.47	0.080
G1-SMI	Prep Blank	N.A.	<0.1	1.4	2.6	45	<0.1	3.8	4.2	545	1.87	<0.5	0.5	4.6	58	<0.1	<0.1	<0.1	34	0.52	0.076



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QUALITY CONTROL REPORT

SMI12000520.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
2099957	Drill Core	22	<1	0.15	35	0.005	<20	0.55	0.019	0.23	0.2	<0.01	1.6	<0.1	0.68	2	<0.5	<0.2
REP 2099957	QC	22	1	0.15	36	0.005	<20	0.55	0.019	0.23	0.2	<0.01	1.9	<0.1	0.67	1	<0.5	<0.2
2099992	Drill Core	21	4	0.03	33	<0.001	<20	0.26	0.009	0.25	0.3	0.02	0.3	<0.1	0.24	<1	<0.5	<0.2
REP 2099992	QC	21	4	0.03	33	0.002	<20	0.28	0.010	0.25	<0.1	0.02	0.3	<0.1	0.24	<1	<0.5	<0.2
Core Reject Duplicates																		
2099970	Drill Core	22	<1	0.10	24	0.002	<20	0.36	0.011	0.24	<0.1	0.01	0.5	<0.1	0.32	1	<0.5	<0.2
DUP 2099970	QC	22	<1	0.11	26	0.002	<20	0.38	0.012	0.26	<0.1	<0.01	0.4	<0.1	0.31	1	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	11	111	0.60	310	0.101	<20	0.93	0.079	0.39	2.7	0.19	2.2	5.3	0.16	4	4.6	5.1
STD DS9	Standard	11	120	0.60	314	0.102	<20	0.90	0.079	0.38	3.1	0.19	2.1	5.5	0.16	4	5.0	5.2
STD OREAS45EA	Standard	6	812	0.11	146	0.090	<20	3.02	0.013	0.05	<0.1	0.02	75.9	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	7	953	0.10	161	0.095	<20	3.24	0.024	0.05	<0.1	<0.01	81.4	<0.1	<0.05	13	0.8	<0.2
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	9	10	0.56	224	0.125	<20	1.03	0.093	0.50	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	8	7	0.59	214	0.126	<20	1.02	0.093	0.50	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Ryan Sharp
Receiving Lab: Canada-Smithers
Received: October 30, 2012
Report Date: November 15, 2012
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CERTIFICATE OF ANALYSIS

SMI12000527.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 59

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle
Michael Frye

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	55	Crush, split and pulverize 250 g rock to 200 mesh			SMI
RIFL2	1	Split samples by riffle splitter			SMI
P200	1	Pulverize to 85% passing 200 mesh			VAN
1DX1	59	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI12000527.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1
G1-SMI	Prep Blank	<0.1	7.3	3.7	53	<0.1	3.8	4.2	565	1.83	0.6	<0.5	4.6	52	0.1	<0.1	<0.1	34	0.42	0.078	8
G1-SMI	Prep Blank	<0.1	7.0	3.7	53	<0.1	4.0	4.4	582	1.91	0.6	<0.5	4.8	53	<0.1	<0.1	<0.1	36	0.44	0.075	8
2099998	Drill Core	0.4	14.0	5.4	45	1.7	1.9	8.1	1642	2.11	43.9	40.4	1.9	47	0.1	0.8	0.2	35	4.19	0.100	16
2099999	Drill Core	0.3	14.8	7.0	50	10.9	2.4	7.9	770	2.41	96.8	226.2	1.7	47	0.1	1.8	<0.1	40	3.30	0.092	15
2100000	Drill Core	0.2	15.3	6.4	48	2.0	3.3	8.0	812	2.52	60.3	638.4	1.7	54	0.1	1.3	<0.1	37	2.76	0.081	15
2100001	Drill Core	<0.1	21.6	6.3	41	0.8	5.4	10.0	727	2.95	43.1	49.3	0.8	84	<0.1	0.3	<0.1	16	2.48	0.022	13
2100002	Drill Core	<0.1	21.5	6.6	41	0.4	5.3	11.1	712	2.93	17.4	44.9	0.9	43	<0.1	0.3	0.1	18	1.24	0.013	8
2100003	Drill Core	<0.1	28.3	6.3	45	0.4	6.2	10.9	640	2.89	5.6	10.2	1.5	62	<0.1	0.6	0.2	36	1.79	0.046	12
2100004	Drill Core	<0.1	34.2	7.3	44	0.2	6.9	11.9	587	2.93	5.9	0.9	1.4	43	<0.1	0.2	0.2	16	0.99	0.016	15
2100005	Drill Core	<0.1	29.2	5.0	48	0.3	7.1	10.7	570	2.67	9.8	3.6	0.9	35	<0.1	0.2	0.1	16	0.78	0.012	11
2100006	Drill Core	<0.1	11.2	5.8	52	1.4	2.9	9.1	925	2.57	22.6	99.7	1.5	41	0.1	0.5	<0.1	45	2.41	0.089	13
2100007	Drill Core	0.2	15.8	5.6	59	8.2	4.3	7.9	784	2.22	42.0	198.5	1.5	27	<0.1	0.7	<0.1	41	2.15	0.076	12
2100008	Rock Pulp	4.2	33.2	5.3	48	0.4	23.5	8.9	401	2.42	7.0	1628	0.9	39	0.1	0.6	<0.1	58	0.84	0.052	4
2100009	Drill Core	0.3	18.8	5.5	66	6.1	3.2	7.9	807	2.20	19.9	276.8	1.9	20	<0.1	0.5	<0.1	45	0.80	0.086	15
2100010 Dup of 2100009	CORE DUP	0.2	25.1	5.5	67	4.5	3.9	7.9	781	2.21	21.0	149.5	1.9	21	<0.1	0.6	<0.1	45	0.80	0.089	15
2100011	Drill Core	0.5	16.6	6.8	71	1.0	3.5	8.0	1134	2.29	28.7	47.7	1.9	21	0.1	0.8	<0.1	39	0.94	0.091	15
2100012	Drill Core	0.5	20.6	6.5	64	1.3	4.0	8.0	662	2.31	28.4	78.8	1.9	16	<0.1	0.8	<0.1	38	0.51	0.084	14
2100013	Drill Core	0.5	16.3	7.5	81	1.7	3.8	9.0	919	2.55	40.8	59.0	1.7	17	0.1	0.9	<0.1	42	0.80	0.111	13
2100014	Drill Core	0.4	21.8	6.8	64	2.3	4.6	9.4	719	2.70	47.1	92.5	1.6	20	0.2	0.9	<0.1	46	0.74	0.248	15
2100015	Drill Core	0.6	22.1	5.6	61	2.6	3.7	8.1	856	2.31	27.3	43.1	1.9	31	<0.1	0.8	<0.1	44	1.95	0.097	15
2100016	Drill Core	0.2	20.7	6.9	88	1.1	4.7	10.0	846	2.68	35.9	38.2	1.6	18	<0.1	0.8	<0.1	42	0.40	0.105	16
2100017	Drill Core	0.2	20.5	7.3	67	1.1	4.2	10.5	923	2.83	31.7	23.0	1.8	19	0.2	0.7	<0.1	41	0.48	0.124	21
2100018	Drill Core	0.3	22.1	6.5	54	2.3	8.0	11.3	826	2.97	31.5	99.6	1.4	14	<0.1	0.8	<0.1	49	0.66	0.109	12
2100019	Drill Core	<0.1	21.1	6.4	58	1.9	6.9	12.1	896	3.00	28.9	116.4	1.4	12	<0.1	0.6	<0.1	56	0.55	0.116	13
2100020	Drill Core	<0.1	18.6	6.5	98	3.6	5.2	11.2	987	3.04	25.0	1053	1.6	13	0.2	0.7	<0.1	61	0.54	0.142	14
2100021	Drill Core	0.2	28.3	5.0	65	1.6	6.6	14.0	1366	3.39	36.3	105.4	1.2	16	<0.1	0.7	<0.1	73	1.24	0.124	13
2100022	Drill Core	<0.1	47.3	3.5	52	2.5	20.0	23.9	1596	4.36	56.1	75.5	0.9	26	<0.1	1.3	<0.1	110	2.03	0.095	11
2100023	Drill Core	0.2	52.1	3.2	51	3.1	17.0	21.7	1643	4.18	59.0	80.2	0.8	109	<0.1	1.0	<0.1	101	4.74	0.089	10
2100024	Drill Core	0.2	40.3	4.7	43	1.5	9.5	12.4	1261	3.24	46.9	33.0	1.0	40	<0.1	0.9	<0.1	61	3.17	0.079	13
2100025	Drill Core	0.2	28.3	3.0	33	1.9	12.1	13.1	1486	3.03	84.2	62.0	0.7	219	<0.1	0.9	<0.1	70	8.02	0.069	8



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CERTIFICATE OF ANALYSIS

SMI12000527.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
G1-SMI	Prep Blank	10	0.60	227	0.118	<20	0.98	0.082	0.50	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	10	0.60	229	0.122	<20	1.00	0.083	0.51	<0.1	0.01	2.6	0.3	<0.05	5	<0.5	<0.2
2099998	Drill Core	3	0.48	21	0.081	<20	0.72	0.016	0.15	0.1	0.02	5.0	<0.1	0.68	4	<0.5	<0.2
2099999	Drill Core	4	0.54	23	0.102	<20	0.72	0.021	0.11	0.1	0.03	5.3	<0.1	1.71	4	0.5	<0.2
2100000	Drill Core	4	0.61	26	0.069	<20	0.89	0.021	0.12	<0.1	0.02	4.8	<0.1	1.38	4	0.6	<0.2
2100001	Drill Core	3	0.42	21	0.012	<20	1.00	0.013	0.25	<0.1	0.02	2.7	<0.1	1.65	3	0.7	0.2
2100002	Drill Core	3	0.45	28	0.010	<20	1.07	0.011	0.24	<0.1	<0.01	2.9	<0.1	1.08	3	<0.5	<0.2
2100003	Drill Core	6	0.46	34	0.033	<20	1.40	0.017	0.27	<0.1	0.02	3.7	<0.1	0.23	3	<0.5	<0.2
2100004	Drill Core	3	0.52	30	0.009	<20	1.30	0.004	0.24	<0.1	0.01	2.4	<0.1	0.69	3	<0.5	<0.2
2100005	Drill Core	3	0.57	29	0.007	<20	1.23	0.002	0.28	<0.1	<0.01	2.2	<0.1	0.37	3	<0.5	<0.2
2100006	Drill Core	4	0.87	17	0.054	<20	1.06	0.023	0.10	<0.1	0.02	4.5	<0.1	0.68	6	0.6	<0.2
2100007	Drill Core	6	0.57	18	0.071	<20	0.70	0.013	0.13	0.9	<0.01	5.0	<0.1	0.76	5	<0.5	<0.2
2100008	Rock Pulp	31	0.73	90	0.121	<20	1.54	0.082	0.13	10.2	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
2100009	Drill Core	6	0.58	23	0.085	<20	0.78	0.023	0.14	0.6	0.02	5.4	<0.1	0.42	5	<0.5	<0.2
2100010 Dup of 2100009	CORE DUP	4	0.58	23	0.084	<20	0.77	0.023	0.14	0.5	0.01	5.4	<0.1	0.45	5	<0.5	<0.2
2100011	Drill Core	5	0.55	21	0.089	<20	0.78	0.015	0.15	0.1	0.02	5.0	<0.1	0.55	5	<0.5	<0.2
2100012	Drill Core	6	0.59	22	0.077	<20	0.73	0.019	0.14	0.1	0.02	4.6	<0.1	0.70	4	<0.5	<0.2
2100013	Drill Core	5	0.67	17	0.069	<20	0.86	0.019	0.12	0.2	0.03	4.3	<0.1	0.93	6	0.5	<0.2
2100014	Drill Core	5	0.68	18	0.066	<20	0.96	0.018	0.14	0.3	0.02	4.9	<0.1	1.17	6	0.9	<0.2
2100015	Drill Core	5	0.48	25	0.087	<20	0.67	0.023	0.13	0.2	0.02	5.4	<0.1	0.47	4	1.1	<0.2
2100016	Drill Core	4	0.73	24	0.053	<20	1.06	0.020	0.19	0.1	0.01	5.3	<0.1	0.76	6	<0.5	<0.2
2100017	Drill Core	5	0.85	21	0.061	<20	1.07	0.021	0.17	0.1	0.02	5.2	<0.1	0.76	6	0.5	<0.2
2100018	Drill Core	10	0.88	20	0.068	<20	1.06	0.014	0.14	<0.1	0.02	5.7	<0.1	0.86	5	<0.5	<0.2
2100019	Drill Core	8	1.00	18	0.079	<20	1.12	0.017	0.11	<0.1	0.02	6.2	<0.1	0.84	6	<0.5	<0.2
2100020	Drill Core	6	0.89	19	0.099	<20	0.96	0.020	0.12	0.1	0.02	5.0	<0.1	0.75	6	0.8	<0.2
2100021	Drill Core	6	1.37	13	0.062	<20	1.45	0.024	0.08	<0.1	<0.01	7.2	<0.1	0.82	8	<0.5	<0.2
2100022	Drill Core	15	2.19	12	0.031	<20	2.10	0.012	0.07	<0.1	<0.01	13.0	<0.1	1.12	12	<0.5	<0.2
2100023	Drill Core	15	2.10	10	0.029	<20	2.03	0.009	0.06	<0.1	<0.01	12.0	<0.1	1.21	11	0.8	<0.2
2100024	Drill Core	9	1.02	14	0.039	<20	1.24	0.009	0.13	<0.1	0.02	7.0	<0.1	1.12	7	0.6	<0.2
2100025	Drill Core	12	0.91	11	0.063	<20	0.97	0.019	0.06	<0.1	0.02	8.5	<0.1	1.11	5	0.8	<0.2



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
2100026	Drill Core	0.5	57.8	3.0	52	1.7	20.8	23.5	1550	4.51	148.0	74.9	1.0	80	<0.1	1.0	<0.1	99	4.34	0.100
2100027	Drill Core	0.2	51.7	2.5	44	1.5	17.1	18.4	1123	4.10	119.7	48.8	0.8	64	<0.1	0.9	<0.1	91	4.81	0.091
2100028	Drill Core	<0.1	39.8	2.1	47	1.3	18.3	20.9	1137	4.07	76.5	38.4	0.8	60	<0.1	0.7	<0.1	97	3.76	0.086
2100029	Drill Core	0.2	37.2	4.2	40	1.3	11.5	14.2	1042	3.14	59.3	124.1	0.7	117	<0.1	0.8	<0.1	66	5.23	0.082
2100030	Drill Core	0.1	33.3	6.8	39	1.7	7.7	8.6	511	2.22	38.1	159.5	0.7	45	0.1	0.6	0.1	31	1.55	0.035
2100031	Drill Core	<0.1	24.5	8.0	45	2.5	3.5	6.1	581	2.00	43.0	133.8	1.0	46	<0.1	0.8	0.1	18	1.59	0.045
2100032	Drill Core	<0.1	29.4	8.4	42	1.4	3.2	5.7	647	1.96	36.5	223.6	0.9	54	<0.1	0.5	0.1	20	1.88	0.043
2100033	Drill Core	0.1	17.7	4.6	41	1.4	5.0	5.5	1040	1.64	44.0	48.1	1.0	189	0.1	1.0	<0.1	13	5.18	0.051
2100034	Rock Pulp	2.5	23.5	2.3	42	0.2	21.9	8.7	364	2.19	4.2	20.1	0.8	36	0.2	0.2	<0.1	54	0.77	0.057
2100035	Drill Core	1.1	7.1	24.4	142	0.8	2.4	2.4	1525	0.69	37.3	23.1	0.9	146	3.4	0.8	0.1	<2	5.94	0.013
2100036	Drill Core	0.2	13.5	3.7	34	1.4	5.2	3.7	1093	1.18	39.7	21.4	1.2	99	0.2	1.6	<0.1	8	3.60	0.027
2100037	Drill Core	0.2	7.5	11.3	45	0.4	2.2	2.0	513	1.20	16.9	11.9	3.3	37	0.1	0.5	<0.1	4	1.05	0.017
2100038	Rock Pulp	25.8	73.0	17.8	130	1.6	74.1	7.8	292	2.72	656.0	30.8	1.7	28	1.8	6.8	3.9	49	1.98	0.083
2100039	Drill Core	0.1	12.3	7.3	28	0.8	4.6	4.1	892	1.17	24.1	7.5	1.8	121	<0.1	0.7	<0.1	9	3.20	0.041
2100040	Drill Core	0.4	12.0	7.3	40	<0.1	7.1	6.2	1661	1.41	1.0	<0.5	1.5	102	0.1	0.2	<0.1	17	4.05	0.097
2100041	Drill Core	0.8	19.5	7.1	27	<0.1	20.1	7.6	1635	1.48	3.4	0.6	1.1	110	<0.1	0.7	<0.1	18	3.60	0.094
2100042	Drill Core	0.2	13.5	7.7	29	<0.1	2.9	5.2	1217	1.44	0.9	0.8	1.5	103	<0.1	0.2	<0.1	17	3.02	0.085
2100043	Drill Core	0.4	16.0	8.0	24	<0.1	1.1	3.5	1906	1.15	1.3	1.1	1.6	115	0.1	0.2	<0.1	16	3.74	0.085
2100044	Drill Core	0.4	7.1	5.9	33	<0.1	4.6	4.3	2161	1.16	1.0	<0.5	1.4	109	0.2	0.2	<0.1	14	3.60	0.083
2100045	Drill Core	1.1	12.0	12.1	28	<0.1	1.6	4.9	1852	1.51	1.3	<0.5	2.0	86	0.2	0.3	<0.1	23	2.80	0.091
2100046	Drill Core	0.7	25.5	8.0	31	<0.1	15.1	9.6	9683	2.27	9.4	<0.5	1.4	209	0.2	2.4	<0.1	26	4.25	0.102
2100047	Drill Core	0.3	17.7	5.7	23	<0.1	17.3	7.2	2176	1.50	6.0	<0.5	1.0	93	<0.1	1.1	<0.1	14	2.54	0.079
2100048	Drill Core	0.2	19.5	6.6	20	<0.1	13.9	5.9	1625	1.31	3.1	<0.5	1.3	86	<0.1	0.6	<0.1	12	1.72	0.073
2100049	Drill Core	0.2	8.5	10.4	37	<0.1	1.5	1.8	1585	0.82	4.3	0.9	1.1	70	<0.1	0.2	<0.1	<2	1.51	0.043
2100050	Drill Core	0.5	22.2	16.2	105	0.1	1.3	3.9	1367	1.84	<0.5	<0.5	0.9	77	<0.1	<0.1	<0.1	3	1.58	0.057
2100051	Drill Core	0.2	0.7	13.1	189	<0.1	<0.1	3.7	1540	2.91	<0.5	<0.5	1.3	79	<0.1	0.1	<0.1	4	2.38	0.110
2100052	Drill Core	0.3	2.0	6.0	182	<0.1	0.4	4.0	1438	2.46	<0.5	3.0	1.1	64	<0.1	<0.1	<0.1	6	2.02	0.077
2100053	Drill Core	<0.1	1.2	6.1	138	<0.1	1.3	3.6	1148	1.59	<0.5	2.6	0.9	48	<0.1	<0.1	<0.1	4	1.39	0.046
2100054	Drill Core	1.0	22.7	41.6	323	0.2	5.0	8.8	1980	2.48	2.2	1.5	0.6	128	0.5	<0.1	<0.1	15	2.60	0.061
2100055	Drill Core	0.6	18.7	89.2	131	0.2	1.1	2.5	2956	1.48	1.5	2.1	1.7	75	0.6	<0.1	<0.1	5	2.32	0.042



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2100026	Drill Core	14	2.07	11	0.035	<20	1.89	0.019	0.07	<0.1	0.02	9.5	<0.1	2.29	10	<0.5
2100027	Drill Core	16	1.34	16	0.052	<20	1.57	0.025	0.10	<0.1	0.01	8.4	<0.1	1.49	8	0.6
2100028	Drill Core	18	1.63	19	0.046	<20	1.65	0.025	0.07	<0.1	0.01	9.1	0.1	0.96	9	<0.5
2100029	Drill Core	13	1.11	14	0.030	<20	1.15	0.019	0.08	<0.1	0.02	6.5	<0.1	1.02	7	<0.5
2100030	Drill Core	8	0.50	22	0.027	<20	0.75	0.004	0.17	<0.1	0.01	4.3	<0.1	0.85	4	<0.5
2100031	Drill Core	3	0.35	24	0.013	<20	0.63	0.002	0.18	<0.1	0.01	3.9	<0.1	0.62	2	<0.5
2100032	Drill Core	3	0.35	24	0.012	<20	0.64	0.002	0.17	<0.1	0.01	4.2	<0.1	0.79	2	<0.5
2100033	Drill Core	9	0.46	26	0.013	<20	0.60	0.003	0.12	0.1	0.05	2.8	0.1	0.72	2	<0.5
2100034	Rock Pulp	27	0.70	97	0.120	<20	1.50	0.084	0.13	7.9	0.02	4.6	<0.1	<0.05	5	<0.5
2100035	Drill Core	5	0.09	9	0.013	<20	0.18	0.003	0.10	<0.1	0.08	1.4	0.2	0.43	<1	<0.5
2100036	Drill Core	12	0.25	13	0.015	<20	0.32	0.006	0.12	<0.1	0.12	1.9	0.2	0.69	2	<0.5
2100037	Drill Core	3	0.22	41	0.006	<20	0.45	0.002	0.19	<0.1	0.06	1.2	<0.1	0.56	2	<0.5
2100038	Rock Pulp	19	0.82	50	0.001	<20	0.25	0.002	0.16	1.7	5.77	2.8	2.0	1.83	<1	5.5
2100039	Drill Core	7	0.24	48	0.005	<20	0.42	0.004	0.16	<0.1	0.06	1.8	<0.1	0.47	1	<0.5
2100040	Drill Core	4	0.29	220	0.006	<20	0.64	0.005	0.23	0.1	<0.01	2.2	<0.1	<0.05	<1	<0.5
2100041	Drill Core	7	0.29	69	0.004	<20	0.66	0.005	0.23	<0.1	<0.01	2.4	<0.1	<0.05	1	<0.5
2100042	Drill Core	3	0.36	412	0.007	<20	0.64	0.009	0.22	<0.1	<0.01	1.9	<0.1	<0.05	<1	<0.5
2100043	Drill Core	2	0.19	1226	0.008	<20	0.43	0.010	0.21	0.1	<0.01	2.0	<0.1	<0.05	<1	<0.5
2100044	Drill Core	8	0.25	340	0.008	<20	0.48	0.011	0.22	0.1	<0.01	2.2	<0.1	<0.05	<1	<0.5
2100045	Drill Core	2	0.25	187	0.010	<20	0.54	0.015	0.23	0.2	<0.01	2.3	<0.1	<0.05	1	<0.5
2100046	Drill Core	7	0.51	1053	0.023	<20	0.75	0.012	0.21	0.9	<0.01	3.4	<0.1	<0.05	2	<0.5
2100047	Drill Core	7	0.29	47	0.004	<20	0.64	0.005	0.25	<0.1	<0.01	2.0	<0.1	<0.05	1	<0.5
2100048	Drill Core	6	0.31	62	0.004	<20	0.61	0.004	0.23	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5
2100049	Drill Core	2	0.22	331	0.002	<20	0.51	0.005	0.24	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5
2100050	Drill Core	1	0.47	101	0.002	<20	0.96	0.011	0.21	<0.1	<0.01	1.1	<0.1	<0.05	2	<0.5
2100051	Drill Core	<1	0.63	53	0.006	<20	1.31	0.024	0.22	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5
2100052	Drill Core	<1	0.70	56	0.006	<20	1.33	0.019	0.19	<0.1	<0.01	2.3	0.1	<0.05	5	<0.5
2100053	Drill Core	1	0.58	86	0.004	<20	1.02	0.016	0.22	<0.1	<0.01	0.8	<0.1	<0.05	3	<0.5
2100054	Drill Core	4	0.81	99	0.005	<20	1.34	0.006	0.21	<0.1	0.03	2.1	<0.1	<0.05	3	<0.5
2100055	Drill Core	3	0.55	54	0.009	<20	0.82	0.030	0.14	<0.1	<0.01	2.2	<0.1	0.12	2	<0.5



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CERTIFICATE OF ANALYSIS

SMI12000527.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2100056	Drill Core	5.5	22.1	225.1	205	0.2	1.4	5.0	601	1.92	5.2	2.6	1.2	22	0.9	0.2	<0.1	3	0.26	0.050



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2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: November 15, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000527.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2100056	Drill Core	1	0.32	63	0.003	<20	0.82	0.013	0.23	<0.1	<0.01	0.8	<0.1	0.83	1	<0.5	<0.2



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Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000527.1

Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
2100002	Drill Core	<0.1	21.5	6.6	41	0.4	5.3	11.1	712	2.93	17.4	44.9	0.9	43	<0.1	0.3	0.1	18	1.24	0.013	8
REP 2100002	QC	<0.1	25.1	6.8	41	0.4	6.3	11.4	752	2.98	17.1	21.9	1.0	43	<0.1	0.3	0.1	17	1.27	0.015	8
2100010 Dup of 2100009	CORE DUP	0.2	25.1	5.5	67	4.5	3.9	7.9	781	2.21	21.0	149.5	1.9	21	<0.1	0.6	<0.1	45	0.80	0.089	15
REP 2100010 Dup of	QC	0.3	20.3	5.4	70	4.9	4.1	8.0	829	2.22	21.6	97.8	1.9	21	<0.1	0.5	<0.1	44	0.79	0.089	16
2100037	Drill Core	0.2	7.5	11.3	45	0.4	2.2	2.0	513	1.20	16.9	11.9	3.3	37	0.1	0.5	<0.1	4	1.05	0.017	16
REP 2100037	QC	0.2	6.7	11.7	47	0.4	1.9	1.9	503	1.22	16.7	13.8	3.3	38	0.1	0.5	<0.1	4	1.04	0.017	16
Core Reject Duplicates																					
2100011	Drill Core	0.5	16.6	6.8	71	1.0	3.5	8.0	1134	2.29	28.7	47.7	1.9	21	0.1	0.8	<0.1	39	0.94	0.091	15
DUP 2100011	QC	0.5	16.2	6.4	73	1.3	3.6	8.0	1155	2.34	28.6	45.9	1.9	21	0.2	0.7	<0.1	38	0.97	0.088	15
2100045	Drill Core	1.1	12.0	12.1	28	<0.1	1.6	4.9	1852	1.51	1.3	<0.5	2.0	86	0.2	0.3	<0.1	23	2.80	0.091	25
DUP 2100045	QC	1.2	11.4	13.2	28	<0.1	1.1	5.0	1842	1.55	1.2	<0.5	2.1	85	0.2	0.4	<0.1	24	2.80	0.090	25
Reference Materials																					
STD DS9	Standard	12.0	103.4	123.5	304	1.8	38.7	7.3	577	2.29	27.7	98.1	6.1	68	2.5	4.4	6.3	38	0.70	0.083	12
STD DS9	Standard	11.9	107.4	109.5	302	1.9	38.6	7.5	552	2.30	24.7	90.5	5.4	63	2.2	3.9	5.3	37	0.70	0.076	11
STD DS9	Standard	13.5	112.6	125.9	296	1.7	42.1	7.7	604	2.35	23.7	95.5	6.4	67	2.3	3.7	5.4	39	0.74	0.077	13
STD OREAS45EA	Standard	1.5	644.7	13.5	28	0.2	367.7	49.4	407	22.28	9.3	56.5	9.5	1	<0.1	0.2	0.3	312	0.06	0.026	7
STD OREAS45EA	Standard	1.7	627.8	12.1	28	0.3	352.0	51.7	386	21.13	8.5	42.0	8.8	4	<0.1	0.2	0.2	306	0.04	0.025	6
STD OREAS45EA	Standard	1.3	695.3	14.0	29	0.3	391.9	50.8	398	20.73	9.3	59.4	10.7	3	<0.1	0.1	0.1	299	0.04	0.025	7
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
Prep Wash																					
G1-SMI	Prep Blank	<0.1	7.3	3.7	53	<0.1	3.8	4.2	565	1.83	0.6	<0.5	4.6	52	0.1	<0.1	<0.1	34	0.42	0.078	8
G1-SMI	Prep Blank	<0.1	7.0	3.7	53	<0.1	4.0	4.4	582	1.91	0.6	<0.5	4.8	53	<0.1	<0.1	<0.1	36	0.44	0.075	8



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Project:

Trout Property

Report Date:

November 15, 2012

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Part:

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QUALITY CONTROL REPORT

SMI12000527.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
2100002	Drill Core	3	0.45	28	0.010	<20	1.07	0.011	0.24	<0.1	<0.01	2.9	<0.1	1.08	3	<0.5	<0.2
REP 2100002	QC	3	0.48	28	0.009	<20	1.09	0.011	0.23	<0.1	<0.01	2.9	<0.1	1.12	3	<0.5	0.2
2100010 Dup of 2100009	CORE DUP	4	0.58	23	0.084	<20	0.77	0.023	0.14	0.5	0.01	5.4	<0.1	0.45	5	<0.5	<0.2
REP 2100010 Dup of	QC	6	0.58	23	0.085	<20	0.76	0.022	0.13	0.4	<0.01	5.4	<0.1	0.44	5	<0.5	<0.2
2100037	Drill Core	3	0.22	41	0.006	<20	0.45	0.002	0.19	<0.1	0.06	1.2	<0.1	0.56	2	<0.5	<0.2
REP 2100037	QC	3	0.21	43	0.006	<20	0.44	0.003	0.20	<0.1	0.06	1.2	<0.1	0.59	1	<0.5	<0.2
Core Reject Duplicates																	
2100011	Drill Core	5	0.55	21	0.089	<20	0.78	0.015	0.15	0.1	0.02	5.0	<0.1	0.55	5	<0.5	<0.2
DUP 2100011	QC	4	0.58	22	0.090	<20	0.78	0.016	0.15	0.2	0.03	5.3	<0.1	0.56	5	<0.5	<0.2
2100045	Drill Core	2	0.25	187	0.010	<20	0.54	0.015	0.23	0.2	<0.01	2.3	<0.1	<0.05	1	<0.5	<0.2
DUP 2100045	QC	3	0.25	167	0.011	<20	0.55	0.015	0.25	0.2	<0.01	2.6	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	113	0.62	323	0.103	<20	0.96	0.078	0.39	2.9	0.21	2.5	5.2	0.16	5	4.8	5.2
STD DS9	Standard	117	0.59	289	0.107	<20	0.90	0.083	0.39	2.7	0.19	2.2	4.8	0.16	4	5.6	4.8
STD DS9	Standard	119	0.63	301	0.115	<20	0.99	0.085	0.40	2.9	0.18	2.3	5.6	0.17	5	5.4	5.2
STD OREAS45EA	Standard	819	0.09	144	0.090	<20	3.07	0.013	0.05	<0.1	0.01	77.0	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	853	0.09	141	0.089	<20	2.89	0.013	0.05	<0.1	0.01	70.2	<0.1	<0.05	12	0.6	<0.2
STD OREAS45EA	Standard	872	0.09	137	0.093	<20	3.17	0.016	0.05	<0.1	<0.01	76.0	<0.1	<0.05	13	1.0	<0.2
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																	
G1-SMI	Prep Blank	10	0.60	227	0.118	<20	0.98	0.082	0.50	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	10	0.60	229	0.122	<20	1.00	0.083	0.51	<0.1	0.01	2.6	0.3	<0.05	5	<0.5	<0.2



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Client: **Venerable Ventures Ltd.**
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Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 20, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000488R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	10	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Trout Property
Report Date: December 20, 2012

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CERTIFICATE OF ANALYSIS

SMI12000488R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2099564	Rock Pulp	4.2	32.3	4.2	49	0.3	23.5	8.9	377	2.37	5.7	617.8	0.8	30	0.2	0.6	0.1	52	0.69	0.052
2099565	Core Chip	0.6	14.6	8.4	58	0.5	67.4	28.1	1211	4.97	7.5	38.9	0.7	118	<0.1	<0.1	4.1	78	2.56	0.134
2099566	Core Chip	0.6	13.2	12.3	26	0.3	13.2	22.2	1124	3.62	3.4	18.8	0.6	152	<0.1	<0.1	2.2	30	3.34	0.142
2099567	Core Chip	0.5	3.0	9.1	46	0.4	14.5	17.2	1040	4.92	5.3	13.4	0.8	111	<0.1	<0.1	2.9	54	2.06	0.142
2099568	Core Chip	0.4	2.4	7.5	38	0.1	1.4	4.2	1459	2.44	10.6	8.4	1.6	163	0.1	0.1	0.2	10	2.94	0.110
2099569	Core Chip	1.2	5.3	6.5	45	0.2	0.7	4.7	1331	2.47	5.4	4.6	1.7	166	0.2	<0.1	0.1	12	2.67	0.118
2099570	Core Chip	1.2	3.3	12.2	60	0.6	0.9	7.5	1297	2.71	7.0	1.9	1.7	111	0.2	<0.1	0.4	8	2.33	0.122
2099571	Core Chip	1.1	9.2	20.5	51	0.5	0.9	6.3	1101	2.60	14.3	<0.5	1.7	87	0.9	0.1	0.3	11	2.03	0.117
2099572	Core Chip	1.0	2.7	10.0	35	0.4	0.9	5.3	873	2.24	6.9	0.6	1.7	82	0.1	0.1	0.2	12	1.46	0.118
2099573	Rock Pulp	24.9	72.8	17.4	133	1.7	73.7	7.9	314	2.78	669.9	17.0	1.5	27	2.0	8.7	3.8	45	2.01	0.075



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Project: Trout Property
Report Date: December 20, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000488R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2099564	Rock Pulp	30	0.70	89	0.080	<20	1.38	0.073	0.13	11.8	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
2099565	Core Chip	129	2.67	66	0.001	<20	2.50	0.035	0.19	<0.1	0.04	6.2	<0.1	2.59	7	0.6	2.1
2099566	Core Chip	9	0.79	72	0.001	<20	1.12	0.032	0.23	<0.1	<0.01	3.9	<0.1	2.85	3	1.1	1.2
2099567	Core Chip	8	1.62	68	0.002	<20	1.84	0.030	0.23	<0.1	<0.01	5.1	<0.1	3.25	5	1.3	1.9
2099568	Core Chip	<1	0.76	64	0.001	<20	1.08	0.024	0.27	<0.1	<0.01	2.4	<0.1	0.82	2	0.6	<0.2
2099569	Core Chip	<1	0.85	59	0.001	<20	1.05	0.031	0.28	<0.1	<0.01	2.3	<0.1	0.76	2	<0.5	<0.2
2099570	Core Chip	<1	0.69	66	0.001	<20	0.86	0.026	0.27	<0.1	<0.01	1.7	<0.1	1.39	2	<0.5	0.3
2099571	Core Chip	<1	0.53	66	0.001	<20	0.86	0.028	0.27	<0.1	<0.01	1.9	<0.1	1.30	2	<0.5	0.2
2099572	Core Chip	<1	0.54	67	0.001	<20	0.85	0.025	0.26	<0.1	<0.01	2.1	<0.1	0.98	2	<0.5	<0.2
2099573	Rock Pulp	19	0.82	94	<0.001	<20	0.22	0.004	0.16	1.9	5.42	2.9	1.9	1.81	<1	6.7	0.7



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Project: Trout Property
Report Date: December 20, 2012

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QUALITY CONTROL REPORT

SMI12000488R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS9	Standard	10.9	102.7	117.2	303	1.7	38.6	7.3	543	2.21	24.1	108.4	4.9	55	2.2	4.7	5.5	36	0.65	0.076	9
STD OREAS45EA	Standard	1.3	652.3	12.3	31	0.3	366.1	51.5	412	24.21	8.8	40.9	8.6	3	<0.1	0.2	0.2	287	0.04	0.027	6
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Acme Analytical Laboratories (Vancouver) Ltd.

PHONE (604) 253-3158

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 20, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000488R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS9	Standard	112	0.58	302	0.086	<20	0.86	0.074	0.38	2.9	0.19	2.1	5.6	0.15	4	5.0	4.6
STD OREAS45EA	Standard	952	0.08	148	0.077	<20	2.93	0.024	0.05	<0.1	0.01	75.4	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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PHONE (604) 253-3158

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 17, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000489R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 19

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	19	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

SMI12000489R.1

	Method Analyte Unit MDL	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001	1DX La ppm 1
2099405	Rock Pulp	4.2	32.0	4.4	51	0.4	23.2	9.2	385	2.41	5.9	1544	0.7	32	0.2	0.7	<0.1	54	0.72	0.053	3
2099406	Drill Core	2.1	4.3	21.3	100	0.6	2.4	6.4	1185	2.40	3.5	5.5	1.3	132	0.7	<0.1	0.2	11	2.12	0.120	7
2099407	Drill Core	2.4	8.6	38.0	118	0.8	1.5	6.5	1180	3.13	3.1	5.8	1.3	120	1.0	<0.1	0.3	7	2.37	0.126	6
2099408	Drill Core	2.3	7.1	33.2	170	1.2	2.0	7.0	1325	2.57	2.6	7.1	1.1	123	1.5	<0.1	0.5	4	3.15	0.127	5
2099409	Drill Core	2.5	2.4	35.3	128	1.1	1.7	6.4	990	2.28	4.1	5.3	1.2	113	1.1	<0.1	0.4	8	2.25	0.126	6
2099410	Drill Core	1.6	3.0	20.6	75	0.5	0.7	3.7	1158	2.11	4.2	7.9	1.1	193	0.7	<0.1	0.2	11	2.29	0.143	7
2099411	Drill Core	0.9	2.4	21.6	115	0.4	1.1	5.5	1401	2.18	5.4	6.7	1.3	187	1.2	<0.1	0.2	14	3.65	0.133	7
2099412	Drill Core	1.0	4.9	49.3	195	1.1	1.0	4.5	3752	2.05	9.7	9.0	1.0	326	1.7	<0.1	0.2	7	9.32	0.111	8
2099413	Drill Core	2.5	3.8	69.5	261	1.1	1.8	9.1	1604	2.80	6.0	8.8	1.1	196	2.7	0.1	0.4	8	3.63	0.124	8
2099414	Drill Core	1.6	36.6	33.6	167	1.0	10.0	15.2	1690	3.91	8.2	8.6	0.9	246	1.4	<0.1	0.6	13	3.93	0.119	10
2099415	Drill Core	0.8	85.5	8.9	405	0.7	24.6	24.3	2378	4.47	6.7	9.6	0.5	195	2.8	<0.1	0.6	48	3.97	0.119	10
2099416	Drill Core	0.8	71.5	7.6	119	0.7	26.2	22.2	2294	4.47	6.8	8.6	0.5	186	0.1	<0.1	0.5	71	3.17	0.116	9
2099417	Drill Core	0.6	55.9	5.4	149	0.4	24.7	20.7	3256	4.33	5.2	4.0	0.5	211	<0.1	<0.1	0.3	82	4.04	0.108	10
2099418	Drill Core	1.2	38.9	6.5	160	0.5	10.3	13.4	1505	3.54	9.9	5.4	1.0	181	0.8	0.1	0.3	27	2.76	0.125	13
2099419	Drill Core	1.9	14.5	18.6	144	0.4	1.0	5.8	943	2.35	7.4	1.9	1.3	145	1.5	<0.1	0.2	12	2.06	0.126	10
2099420	Rock Pulp	2.2	22.4	2.1	41	0.2	20.1	7.9	359	2.15	3.5	<0.5	0.8	32	0.2	0.2	<0.1	52	0.73	0.052	3
2099421	Drill Core	1.8	17.6	91.6	564	0.9	1.7	7.5	973	2.70	7.5	3.8	1.4	75	6.0	0.2	0.3	9	2.25	0.125	9
2099422	Drill Core	1.3	10.8	60.5	144	0.6	1.5	10.6	628	2.10	5.9	3.8	1.8	56	1.6	0.2	0.3	5	1.54	0.127	8
2099423	Rock Pulp	24.6	71.7	17.1	133	1.6	73.2	7.5	305	2.75	672.2	23.6	1.5	27	2.2	8.7	4.0	48	1.99	0.077	1

CERTIFICATE OF ANALYSIS

SMI12000489R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099405	Rock Pulp	30	0.70	93	0.089	<20	1.42	0.077	0.13	11.4	0.06	4.1	<0.1	<0.05	5	<0.5
2099406	Drill Core	<1	0.56	66	0.001	<20	0.71	0.029	0.31	<0.1	<0.01	2.3	0.1	2.30	2	1.2
2099407	Drill Core	1	0.69	66	0.002	<20	0.70	0.027	0.33	<0.1	<0.01	1.9	0.1	3.12	2	1.0
2099408	Drill Core	1	0.38	46	0.001	<20	0.55	0.017	0.26	<0.1	<0.01	1.3	<0.1	2.61	<1	0.9
2099409	Drill Core	2	0.41	65	0.001	<20	0.67	0.024	0.34	<0.1	<0.01	1.7	0.1	2.11	1	1.2
2099410	Drill Core	<1	0.94	72	0.001	<20	0.74	0.040	0.30	<0.1	<0.01	2.0	<0.1	1.64	1	<0.5
2099411	Drill Core	2	0.72	70	0.002	<20	0.91	0.032	0.35	<0.1	<0.01	2.1	0.1	1.53	2	<0.5
2099412	Drill Core	<1	0.66	68	0.001	<20	0.67	0.030	0.25	<0.1	<0.01	1.8	<0.1	1.41	1	0.6
2099413	Drill Core	<1	0.59	77	0.001	<20	0.71	0.028	0.26	<0.1	<0.01	1.9	<0.1	2.69	1	0.8
2099414	Drill Core	2	0.69	69	<0.001	<20	0.80	0.037	0.23	<0.1	<0.01	3.1	0.2	3.73	1	1.3
2099415	Drill Core	21	1.38	77	0.002	<20	1.39	0.049	0.20	<0.1	<0.01	7.3	<0.1	3.42	3	0.7
2099416	Drill Core	31	1.92	84	0.002	<20	1.99	0.068	0.19	<0.1	<0.01	6.8	<0.1	3.01	5	<0.5
2099417	Drill Core	32	2.40	136	0.002	<20	2.32	0.056	0.19	<0.1	<0.01	7.4	<0.1	1.69	6	<0.5
2099418	Drill Core	7	0.83	80	<0.001	<20	1.14	0.044	0.23	<0.1	<0.01	4.4	<0.1	2.51	3	0.7
2099419	Drill Core	1	0.58	81	0.001	<20	0.82	0.030	0.25	<0.1	<0.01	2.2	<0.1	1.92	2	<0.5
2099420	Rock Pulp	25	0.68	90	0.088	<20	1.41	0.080	0.13	8.4	<0.01	4.2	<0.1	<0.05	5	<0.5
2099421	Drill Core	<1	0.52	92	0.001	<20	0.81	0.019	0.28	<0.1	0.03	1.3	0.1	2.49	2	0.7
2099422	Drill Core	2	0.46	76	0.002	<20	0.63	0.013	0.22	<0.1	<0.01	0.9	<0.1	2.02	1	1.3
2099423	Rock Pulp	19	0.84	105	<0.001	<20	0.23	0.003	0.17	1.8	5.61	2.8	2.2	1.82	<1	6.2



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PHONE (604) 253-3158

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000489R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS9	Standard	10.9	102.7	117.2	303	1.7	38.6	7.3	543	2.21	24.1	108.4	4.9	55	2.2	4.7	5.5	36	0.65	0.076	9
STD OREAS45EA	Standard	1.3	652.3	12.3	31	0.3	366.1	51.5	412	24.21	8.8	40.9	8.6	3	<0.1	0.2	0.2	287	0.04	0.027	6
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000489R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS9	Standard	112	0.58	302	0.086	<20	0.86	0.074	0.38	2.9	0.19	2.1	5.6	0.15	4	5.0	4.6
STD OREAS45EA	Standard	952	0.08	148	0.077	<20	2.93	0.024	0.05	<0.1	0.01	75.4	<0.1	<0.05	12	0.5	<0.2
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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PHONE (604) 253-3158

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 17, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000494R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 4

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	4	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000494R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2099746	Rock Pulp	24.8	72.9	17.0	135	1.6	72.8	7.6	305	2.73	671.0	14.7	1.5	28	1.9	8.9	3.9	48	1.99	0.078
2099747	Drill Core	0.9	22.0	3.5	78	<0.1	23.4	16.2	590	3.66	<0.5	<0.5	1.4	515	<0.1	<0.1	<0.1	105	1.19	0.302
2099748	Drill Core	1.5	17.5	2.6	83	<0.1	23.7	18.1	644	4.23	<0.5	<0.5	1.3	91	0.1	<0.1	<0.1	134	1.06	0.302
2099749	Rock Pulp	4.5	32.9	4.7	51	0.2	24.0	9.3	393	2.52	6.2	510.2	0.8	32	0.2	0.6	<0.1	56	0.77	0.056



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000494R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099746	Rock Pulp	19	0.84	105	0.001	<20	0.23	0.003	0.17	1.8	5.48	2.8	2.1	1.82	<1	5.5
2099747	Drill Core	30	0.92	555	0.173	<20	1.04	0.252	0.10	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5
2099748	Drill Core	35	0.87	87	0.274	<20	0.71	0.160	0.11	0.2	<0.01	6.7	<0.1	<0.05	4	<0.5
2099749	Rock Pulp	31	0.72	95	0.092	<20	1.46	0.080	0.13	10.7	0.05	4.3	<0.1	<0.05	5	<0.5



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Project: Trout Property
Report Date: December 17, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000494R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
2099747	Drill Core	0.9	22.0	3.5	78	<0.1	23.4	16.2	590	3.66	<0.5	<0.5	1.4	515	<0.1	<0.1	<0.1	105	1.19	0.302	35
REP 2099747	QC	0.9	22.1	3.5	80	<0.1	22.7	16.3	590	3.68	<0.5	<0.5	1.4	521	<0.1	<0.1	<0.1	105	1.19	0.299	34
Reference Materials																					
STD DS9	Standard	10.9	102.7	117.2	303	1.7	38.6	7.3	543	2.21	24.1	108.4	4.9	55	2.2	4.7	5.5	36	0.65	0.076	9
STD OREAS45EA	Standard	1.3	652.3	12.3	31	0.3	366.1	51.5	412	24.21	8.8	40.9	8.6	3	<0.1	0.2	0.2	287	0.04	0.027	6
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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PHONE (604) 253-3158

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000494R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																
2099747	Drill Core	30	0.92	555	0.173	<20	1.04	0.252	0.10	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5
REP 2099747	QC	30	0.92	559	0.179	<20	1.05	0.251	0.10	<0.1	0.03	5.2	<0.1	<0.05	5	0.5
Reference Materials																
STD DS9	Standard	112	0.58	302	0.086	<20	0.86	0.074	0.38	2.9	0.19	2.1	5.6	0.15	4	5.0
STD OREAS45EA	Standard	952	0.08	148	0.077	<20	2.93	0.024	0.05	<0.1	0.01	75.4	<0.1	<0.05	12	0.5
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 17, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000495R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 14

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	14	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

SMI12000495R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2099658	Rock Pulp	3.9	31.3	5.0	49	0.4	23.4	8.8	382	2.41	6.0	995.5	0.8	36	0.2	0.6	0.1	56	0.78	0.052
2099659	Drill Core	6.2	18.1	12.0	17	0.4	2.6	5.9	484	2.87	7.2	10.3	1.6	66	<0.1	<0.1	1.9	2	0.93	0.090
2099660	Drill Core	10.2	25.3	24.8	48	0.5	2.4	5.8	523	2.89	26.9	14.4	1.5	73	0.4	0.2	1.7	<2	0.95	0.086
2099661	Drill Core	10.3	28.9	21.4	38	0.6	1.7	5.3	196	2.64	29.4	12.0	1.5	63	0.3	0.2	1.6	2	0.48	0.091
2099662	Rock Pulp	2.0	21.9	2.4	42	0.2	19.1	8.4	370	2.25	4.8	41.0	0.8	38	<0.1	0.3	<0.1	54	0.83	0.054
2099663	Drill Core	4.3	14.6	26.1	62	0.7	4.5	7.0	516	2.87	23.8	11.8	1.5	69	0.4	0.2	1.3	3	1.08	0.086
2099664	Drill Core	2.7	9.3	21.6	40	0.7	1.5	4.7	660	2.51	15.0	10.3	1.4	70	0.4	0.1	1.5	<2	1.11	0.085
2099665	Drill Core	0.6	10.2	39.8	104	0.6	1.6	4.8	2219	2.14	9.0	7.2	1.3	123	0.8	<0.1	1.0	<2	3.06	0.085
2099666	Drill Core	0.9	10.8	50.9	166	1.0	1.7	4.5	952	2.27	6.0	16.8	1.5	93	1.3	<0.1	1.3	<2	1.53	0.088
2099667	Drill Core	0.4	22.4	26.0	104	0.7	1.3	4.9	748	2.03	6.5	11.6	1.4	96	1.0	<0.1	1.2	<2	1.50	0.090
2099668	Drill Core	0.4	9.9	54.3	172	0.6	1.8	5.1	2336	2.09	7.4	5.5	1.2	156	1.4	<0.1	1.1	<2	4.39	0.083
2099669	Drill Core	0.8	7.7	59.1	156	0.9	1.7	5.3	1186	2.37	9.3	4.0	1.4	144	1.3	<0.1	1.4	<2	2.38	0.089
2099670	Drill Core	0.7	7.6	39.4	58	1.0	1.5	5.2	1369	2.53	16.8	3.9	1.4	176	0.4	<0.1	1.2	<2	3.12	0.092
2099671	Rock Pulp	23.8	69.6	18.4	132	1.6	68.7	7.4	285	2.72	680.6	30.2	1.8	29	2.0	7.9	4.2	53	1.97	0.079

CERTIFICATE OF ANALYSIS

SMI12000495R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099658	Rock Pulp	29	0.72	92	0.104	<20	1.47	0.076	0.13	10.3	0.05	4.2	<0.1	<0.05	5	<0.5
2099659	Drill Core	<1	0.06	82	<0.001	<20	0.36	0.022	0.30	0.2	<0.01	0.7	0.2	3.24	<1	1.3
2099660	Drill Core	<1	0.06	58	<0.001	<20	0.34	0.025	0.29	0.1	<0.01	0.7	0.2	3.34	<1	<0.5
2099661	Drill Core	<1	0.06	67	<0.001	<20	0.39	0.026	0.32	0.1	<0.01	0.5	0.2	3.07	<1	<0.5
2099662	Rock Pulp	26	0.74	95	0.114	<20	1.52	0.084	0.13	8.2	0.01	4.8	<0.1	<0.05	5	<0.5
2099663	Drill Core	1	0.06	68	<0.001	<20	0.40	0.023	0.32	<0.1	<0.01	0.8	0.2	3.31	1	0.8
2099664	Drill Core	<1	0.05	67	<0.001	<20	0.32	0.023	0.27	<0.1	0.01	0.6	0.1	2.90	<1	<0.5
2099665	Drill Core	<1	0.06	92	<0.001	<20	0.29	0.025	0.24	0.1	<0.01	0.6	0.1	2.43	<1	0.6
2099666	Drill Core	<1	0.06	58	<0.001	<20	0.31	0.027	0.24	<0.1	<0.01	0.7	0.1	2.59	<1	<0.5
2099667	Drill Core	<1	0.06	83	<0.001	<20	0.32	0.027	0.25	<0.1	<0.01	0.6	0.1	2.27	<1	<0.5
2099668	Drill Core	<1	0.13	130	0.001	<20	0.40	0.023	0.28	<0.1	0.01	0.8	0.1	2.28	<1	<0.5
2099669	Drill Core	<1	0.25	110	<0.001	<20	0.48	0.028	0.25	<0.1	<0.01	0.7	0.1	2.61	1	1.2
2099670	Drill Core	<1	0.43	106	<0.001	<20	0.68	0.032	0.25	<0.1	0.01	0.8	<0.1	2.67	1	0.7
2099671	Rock Pulp	18	0.85	95	0.001	<20	0.27	0.002	0.18	1.7	5.73	3.0	2.3	1.87	1	4.5



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000495R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																				
2099668	Drill Core	0.4	9.9	54.3	172	0.6	1.8	5.1	2336	2.09	7.4	5.5	1.2	156	1.4	<0.1	1.1	<2	4.39	0.083
REP 2099668	QC	0.3	9.6	54.9	161	0.6	1.9	4.5	2227	2.05	6.9	5.5	1.3	154	1.4	<0.1	1.1	<2	4.39	0.082
Reference Materials																				
STD DS9	Standard	12.7	107.2	128.2	319	1.8	38.7	7.2	591	2.39	26.9	119.0	6.2	68	2.7	4.7	6.6	39	0.74	0.082
STD OREAS45EA	Standard	1.3	716.4	13.3	30	0.3	372.0	49.9	395	21.79	11.0	58.7	9.7	3	<0.1	0.2	0.2	302	0.04	0.027
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.7	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Client: **Venerable Ventures Ltd.**
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North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000495R.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																
2099668 Drill Core	<1	0.13	130	0.001	<20	0.40	0.023	0.28	<0.1	0.01	0.8	0.1	2.28	<1	<0.5	0.6
REP 2099668 QC	<1	0.13	142	<0.001	<20	0.39	0.023	0.28	<0.1	<0.01	0.8	0.1	2.26	1	0.9	0.8
Reference Materials																
STD DS9 Standard	117	0.63	335	0.106	<20	0.99	0.083	0.41	3.5	0.21	2.5	5.6	0.17	5	5.9	5.1
STD OREAS45EA Standard	879	0.09	143	0.088	<20	3.17	0.018	0.05	<0.1	<0.01	79.4	<0.1	<0.05	13	1.6	<0.2
STD OREAS45EA Expected	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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PHONE (604) 253-3158

Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 18, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000507R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 22

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	22	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

SMI12000507R.1

	Method Analyte Unit MDL	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001	1DX La ppm 1
2099789	Rock Pulp	3.7	32.3	4.8	50	0.3	23.2	8.8	397	2.50	6.7	388.3	0.8	38	0.2	0.7	0.1	57	0.82	0.055	4
2099790	Drill Core	3.1	7.2	5.7	28	3.4	0.5	3.7	919	1.28	36.5	430.5	1.0	69	<0.1	1.1	<0.1	20	5.33	0.046	9
2099791	Drill Core	0.7	15.4	10.4	53	2.6	2.0	6.7	769	2.63	81.6	145.8	1.9	19	0.1	1.2	<0.1	32	0.55	0.089	19
2099792 Dup of 2099791	CORE DUP	0.6	14.9	9.6	54	2.5	2.0	6.6	750	2.59	82.3	142.1	1.8	19	0.2	1.0	<0.1	31	0.54	0.093	19
2099793	Drill Core	0.2	13.3	8.6	50	1.1	1.9	6.1	771	2.47	34.3	107.1	2.4	14	<0.1	0.8	<0.1	28	0.48	0.094	19
2099794	Drill Core	0.7	15.4	9.5	53	0.9	1.7	5.5	917	2.38	21.7	152.0	3.1	16	<0.1	0.8	<0.1	32	0.94	0.092	20
2099795	Drill Core	1.1	13.8	7.6	54	0.6	1.7	5.5	937	2.40	12.3	43.2	3.3	23	<0.1	0.8	<0.1	38	1.64	0.098	21
2099796	Drill Core	1.9	15.2	6.9	47	0.4	1.5	5.4	789	2.34	9.8	21.6	3.6	24	0.1	0.7	<0.1	35	1.31	0.099	21
2099797	Drill Core	1.0	14.1	7.2	49	0.6	1.2	5.4	866	2.29	15.1	20.0	2.7	33	<0.1	0.8	<0.1	33	1.84	0.098	21
2099798	Drill Core	0.8	14.9	8.0	51	1.0	1.0	5.6	748	2.38	12.6	198.2	2.6	23	0.1	0.8	<0.1	35	1.08	0.093	20
2099799	Drill Core	0.7	13.8	7.6	48	0.6	1.5	5.4	888	2.38	14.3	227.8	2.4	17	<0.1	0.8	<0.1	35	1.27	0.096	19
2099800	Drill Core	0.6	12.5	8.2	45	1.5	1.1	4.7	2025	2.16	18.7	313.3	2.1	20	<0.1	1.0	<0.1	29	2.87	0.089	18
2099801	Drill Core	0.6	13.6	7.4	49	1.0	1.4	5.2	1138	2.20	20.7	94.1	2.5	17	<0.1	1.0	<0.1	30	1.34	0.096	20
2099802	Drill Core	0.6	15.9	8.3	57	1.9	2.0	6.5	1067	2.63	17.7	339.1	2.1	15	<0.1	1.0	<0.1	34	0.71	0.104	19
2099803	Drill Core	0.4	18.0	7.1	64	4.2	2.3	7.1	1151	2.44	16.8	101.5	2.2	14	<0.1	0.9	<0.1	41	0.87	0.089	18
2099804	Drill Core	0.1	20.5	9.3	50	6.9	2.1	6.1	2129	2.38	21.3	388.0	2.1	28	0.3	1.1	<0.1	44	3.18	0.083	19
2099805	Drill Core	<0.1	18.7	6.6	36	0.7	6.8	11.1	760	3.09	41.0	43.1	0.4	24	<0.1	0.2	<0.1	14	0.29	0.008	9
2099806	Drill Core	0.2	29.3	5.9	59	0.6	6.6	11.0	763	3.38	16.3	17.4	1.5	45	<0.1	0.7	<0.1	65	1.22	0.090	17
2099807	Drill Core	<0.1	31.4	6.7	57	0.8	7.5	12.0	785	3.47	17.0	28.6	1.2	39	<0.1	0.6	<0.1	55	1.19	0.067	15
2099808	Drill Core	0.9	19.7	6.8	36	4.3	3.8	7.3	898	2.58	35.0	131.2	0.6	99	0.2	0.8	<0.1	17	5.27	0.026	8
2099809	Drill Core	<0.1	29.2	7.5	60	1.2	5.6	9.3	536	3.12	19.8	18.0	0.9	55	<0.1	0.6	0.1	31	1.86	0.053	12
2099810	Rock Pulp	23.6	71.4	19.8	136	1.7	72.8	7.6	290	2.83	686.6	35.4	1.8	29	2.0	7.9	4.4	50	2.03	0.084	2

CERTIFICATE OF ANALYSIS

SMI12000507R.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2099789	Rock Pulp		30	0.74	95	0.111	<20	1.52	0.080	0.13	10.1	0.05	4.4	<0.1	<0.05	5	<0.5
2099790	Drill Core		2	0.22	11	0.076	<20	0.50	0.016	0.13	0.3	0.03	2.9	<0.1	0.90	3	<0.5
2099791	Drill Core		3	0.65	20	0.083	<20	0.90	0.031	0.14	0.2	0.03	3.7	<0.1	1.57	6	0.8
2099792 Dup of 2099791	CORE DUP		3	0.65	20	0.079	<20	0.89	0.031	0.13	0.2	0.02	3.3	<0.1	1.53	6	<0.5
2099793	Drill Core		3	0.42	22	0.098	<20	0.74	0.034	0.15	0.2	0.02	3.7	<0.1	1.49	4	<0.5
2099794	Drill Core		3	0.31	26	0.107	<20	0.71	0.031	0.18	0.3	0.02	4.3	<0.1	1.13	4	<0.5
2099795	Drill Core		4	0.26	30	0.125	<20	0.64	0.037	0.16	0.2	0.02	4.9	<0.1	0.76	3	<0.5
2099796	Drill Core		3	0.24	35	0.116	<20	0.64	0.039	0.16	0.2	<0.01	4.8	<0.1	0.29	3	<0.5
2099797	Drill Core		3	0.23	25	0.108	<20	0.61	0.037	0.14	0.2	0.01	4.1	<0.1	0.53	3	<0.5
2099798	Drill Core		<1	0.23	27	0.110	<20	0.60	0.037	0.16	0.2	<0.01	4.3	<0.1	1.08	3	<0.5
2099799	Drill Core		5	0.23	22	0.110	<20	0.57	0.041	0.10	0.2	0.01	4.7	<0.1	1.02	4	0.5
2099800	Drill Core		3	0.22	20	0.073	<20	0.48	0.033	0.10	0.1	0.02	4.1	<0.1	1.05	3	<0.5
2099801	Drill Core		4	0.36	24	0.078	<20	0.61	0.038	0.11	0.2	0.01	4.0	<0.1	0.88	4	<0.5
2099802	Drill Core		4	0.43	24	0.086	<20	0.77	0.041	0.13	0.2	<0.01	4.2	<0.1	1.03	5	<0.5
2099803	Drill Core		5	0.52	25	0.131	<20	0.73	0.036	0.12	0.3	0.02	5.0	<0.1	0.79	5	<0.5
2099804	Drill Core		3	0.33	16	0.145	<20	0.65	0.055	0.07	0.6	<0.01	5.3	<0.1	0.90	5	0.7
2099805	Drill Core		3	0.60	35	0.004	<20	1.26	0.007	0.29	<0.1	<0.01	4.1	0.1	1.34	4	<0.5
2099806	Drill Core		10	0.49	33	0.103	<20	1.13	0.035	0.27	<0.1	0.03	5.6	0.1	0.78	4	<0.5
2099807	Drill Core		6	0.52	29	0.091	<20	1.15	0.033	0.23	0.1	0.02	5.3	0.1	1.43	5	<0.5
2099808	Drill Core		4	0.18	25	0.086	<20	0.40	0.008	0.15	0.1	0.02	4.1	<0.1	2.26	2	0.9
2099809	Drill Core		5	0.32	40	0.125	<20	0.87	0.031	0.23	0.1	0.01	4.3	<0.1	2.00	3	1.3
2099810	Rock Pulp		19	0.88	93	<0.001	<20	0.26	0.002	0.18	1.7	5.81	2.9	2.3	1.92	1	7.2



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PHONE (604) 253-3158

Client: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 18, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000507R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS9	Standard	12.7	107.2	128.2	319	1.8	38.7	7.2	591	2.39	26.9	119.0	6.2	68	2.7	4.7	6.6	39	0.74	0.082	12
STD OREAS45EA	Standard	1.3	716.4	13.3	30	0.3	372.0	49.9	395	21.79	11.0	58.7	9.7	3	<0.1	0.2	0.2	302	0.04	0.027	6
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.7	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 18, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000507R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS9	Standard	117	0.63	335	0.106	<20	0.99	0.083	0.41	3.5	0.21	2.5	5.6	0.17	5	5.9	5.1
STD OREAS45EA	Standard	879	0.09	143	0.088	<20	3.17	0.018	0.05	<0.1	<0.01	79.4	<0.1	<0.05	13	1.6	<0.2
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 20, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000513R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 7

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	7	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

SMI12000513R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2099869	Rock Pulp	24.4	77.4	20.8	140	1.7	72.7	8.0	309	2.85	668.9	14.8	1.9	31	2.1	5.8	4.2	56	2.01	0.087
2099870	Drill Core	0.2	44.9	4.0	47	2.6	20.0	19.4	1646	4.13	8.7	16.1	1.4	45	<0.1	0.3	<0.1	102	2.32	0.078
2099871	Drill Core	0.2	56.3	4.9	40	22.0	9.6	12.6	974	3.02	13.0	70.4	1.5	39	0.1	1.0	<0.1	71	1.73	0.086
2099872 Dup of 2099871	CORE DUP	0.2	60.9	5.4	44	26.7	9.6	13.1	917	3.11	13.5	82.6	1.6	37	0.1	1.1	<0.1	71	1.43	0.088
2099873	Drill Core	<0.1	61.7	5.1	52	1.8	18.3	22.4	1472	4.65	36.3	18.8	1.5	50	0.1	0.4	<0.1	111	1.33	0.090
2099874	Drill Core	0.2	53.8	7.4	44	4.7	15.5	15.6	734	3.31	28.0	30.6	2.1	48	<0.1	0.4	0.2	53	1.07	0.086
2099875	Rock Pulp	4.1	32.0	5.3	48	0.3	23.5	8.9	396	2.55	6.4	299.4	0.9	40	0.2	0.6	<0.1	60	0.80	0.060



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Client: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 20, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000513R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2099869	Rock Pulp	20	0.86	28	<0.001	<20	0.28	0.004	0.17	1.6	5.74	3.0	1.2	1.86	1	5.7	0.8
2099870	Drill Core	24	1.04	26	0.079	<20	1.46	0.034	0.13	<0.1	0.02	8.2	<0.1	0.67	7	<0.5	<0.2
2099871	Drill Core	15	0.58	26	0.081	<20	1.05	0.030	0.19	<0.1	0.02	6.1	<0.1	0.69	5	<0.5	<0.2
2099872 Dup of 2099871	CORE DUP	14	0.58	25	0.084	<20	1.07	0.030	0.19	<0.1	0.02	6.3	0.2	0.72	5	<0.5	<0.2
2099873	Drill Core	23	0.96	28	0.123	<20	1.68	0.042	0.15	<0.1	0.01	10.4	0.1	1.74	8	0.6	<0.2
2099874	Drill Core	17	0.53	51	0.035	<20	1.26	0.026	0.29	<0.1	0.03	5.2	0.2	0.72	4	<0.5	0.2
2099875	Rock Pulp	31	0.73	99	0.111	<20	1.50	0.085	0.13	9.8	0.05	4.5	<0.1	<0.05	5	<0.5	<0.2



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Project: Trout Property
Report Date: December 20, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000513R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS9	Standard	13.1	111.5	124.1	306	1.9	39.4	7.6	589	2.39	26.9	108.7	6.5	71	2.5	4.3	6.5	41	0.73	0.088	13
STD OREAS45EA	Standard	1.3	673.0	14.8	29	0.3	376.2	49.5	419	23.16	9.0	47.9	10.9	4	<0.1	0.1	0.2	292	0.04	0.032	7
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 20, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000513R.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Reference Materials																	
STD DS9	Standard		118	0.63	335	0.106	<20	0.98	0.089	0.41	2.4	0.22	2.4	5.5	0.17	5	5.3
STD OREAS45EA	Standard		798	0.11	156	0.084	<20	3.00	0.023	0.05	<0.1	0.02	82.0	<0.1	<0.05	13	<0.5
STD DS9 Expected			121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2
STD OREAS45EA Expected			849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09
BLK	Blank		<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 18, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000514R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 11

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	11	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

SMI12000514R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2099913	Drill Core	0.4	2.2	7.9	51	1.2	0.3	0.4	84	1.10	40.2	490.6	2.7	7	0.4	0.4	<0.1	5	0.03	0.029
2099914 Dup of 2099913	CORE DUP	0.4	2.2	7.5	46	0.8	0.2	0.3	76	1.00	38.1	69.3	2.5	7	0.3	0.4	<0.1	5	0.03	0.026
2099916	Rock Pulp	4.1	33.3	5.4	50	0.5	22.8	9.2	410	2.56	6.9	1143	0.9	41	0.2	0.6	<0.1	60	0.82	0.062
2099917	Drill Core	1.1	3.2	7.8	54	0.9	0.7	0.7	157	1.19	30.2	294.4	2.7	6	0.3	0.6	<0.1	5	0.04	0.040
2099918	Drill Core	0.5	1.8	8.1	91	1.0	0.3	0.8	160	1.20	43.9	336.0	2.1	4	0.7	0.6	<0.1	4	0.07	0.039
2099919	Drill Core	0.4	2.6	9.1	99	1.0	0.4	0.8	256	1.19	46.1	482.9	2.0	4	0.3	0.6	<0.1	4	0.08	0.032
2099920	Drill Core	0.4	2.1	9.2	86	2.3	0.2	0.6	246	1.09	52.9	1592	1.9	4	0.4	0.6	<0.1	4	0.06	0.032
2099921	Drill Core	0.6	2.3	9.3	97	0.8	0.3	0.5	198	1.12	63.7	36.6	1.9	5	0.5	0.7	<0.1	4	0.05	0.036
2099922	Drill Core	0.4	1.7	8.3	78	0.6	0.3	0.4	149	0.94	36.5	47.7	2.2	6	0.4	0.7	<0.1	3	0.06	0.035
2099923	Drill Core	0.4	1.8	8.9	84	0.7	0.2	0.6	195	1.03	32.0	97.1	1.8	8	0.8	0.7	<0.1	4	0.08	0.038
2099924	Rock Pulp	23.3	71.0	19.6	132	1.7	67.2	7.3	302	2.79	668.6	28.2	1.8	31	1.9	5.7	4.2	52	1.99	0.087

CERTIFICATE OF ANALYSIS

SMI12000514R.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2099913	Drill Core	<1	0.03	37	0.005	<20	0.35	0.023	0.26	<0.1	1.73	1.0	<0.1	0.41	2	<0.5	<0.2
2099914 Dup of 2099913	CORE DUP	<1	0.02	33	0.005	<20	0.29	0.019	0.23	<0.1	1.68	0.9	<0.1	0.33	1	<0.5	<0.2
2099916	Rock Pulp	31	0.77	100	0.112	<20	1.59	0.084	0.13	9.7	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
2099917	Drill Core	<1	0.04	56	0.013	<20	0.38	0.027	0.20	0.3	0.45	1.3	<0.1	0.18	1	<0.5	<0.2
2099918	Drill Core	<1	0.03	30	0.012	<20	0.37	0.025	0.24	0.6	0.94	1.0	<0.1	0.60	1	<0.5	<0.2
2099919	Drill Core	<1	0.04	31	0.019	<20	0.33	0.027	0.22	0.8	0.98	1.0	<0.1	0.66	1	<0.5	<0.2
2099920	Drill Core	<1	0.03	30	0.017	<20	0.33	0.026	0.22	0.6	0.61	0.9	<0.1	0.53	1	<0.5	<0.2
2099921	Drill Core	<1	0.03	32	0.018	<20	0.35	0.022	0.23	0.5	0.17	0.9	<0.1	0.36	1	<0.5	<0.2
2099922	Drill Core	<1	0.03	37	0.017	<20	0.34	0.027	0.24	0.5	0.14	0.8	<0.1	0.27	1	<0.5	<0.2
2099923	Drill Core	<1	0.03	34	0.014	<20	0.32	0.025	0.22	0.5	0.24	0.9	<0.1	0.42	1	<0.5	<0.2
2099924	Rock Pulp	18	0.85	26	<0.001	<20	0.26	0.003	0.17	1.6	5.68	2.9	1.8	1.84	<1	6.1	0.8



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 18, 2012

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000514R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
2099920	Drill Core	0.4	2.1	9.2	86	2.3	0.2	0.6	246	1.09	52.9	1592	1.9	4	0.4	0.6	<0.1	4	0.06	0.032	25
REP 2099920	QC	0.4	2.0	9.0	85	1.1	0.3	0.6	247	1.09	53.8	139.8	1.9	4	0.5	0.6	<0.1	3	0.06	0.032	26
Reference Materials																					
STD DS9	Standard	13.1	111.5	124.1	306	1.9	39.4	7.6	589	2.39	26.9	108.7	6.5	71	2.5	4.3	6.5	41	0.73	0.088	13
STD OREAS45EA	Standard	1.3	673.0	14.8	29	0.3	376.2	49.5	419	23.16	9.0	47.9	10.9	4	<0.1	0.1	0.2	292	0.04	0.032	7
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	8.19
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Client: Venerable Ventures Ltd.
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North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 18, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000514R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
2099920	Drill Core	<1	0.03	30	0.017	<20	0.33	0.026	0.22	0.6	0.61	0.9	<0.1	0.53	1	<0.5	<0.2
REP 2099920	QC	<1	0.03	31	0.017	<20	0.33	0.026	0.22	0.7	0.62	0.8	<0.1	0.53	1	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	118	0.63	335	0.106	<20	0.98	0.089	0.41	2.4	0.22	2.4	5.5	0.17	5	5.3	4.9
STD OREAS45EA	Standard	798	0.11	156	0.084	<20	3.00	0.023	0.05	<0.1	0.02	82.0	<0.1	<0.05	13	<0.5	<0.2
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: **Venerable Ventures Ltd.**
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Submitted By: Ryan Sharp and Michael Frye
Receiving Lab: Canada-Smithers
Received: December 11, 2012
Report Date: December 17, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI12000527R.1

CLIENT JOB INFORMATION

Project: Trout Property
Shipment ID:
P.O. Number
Number of Samples: 31

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Venerable Ventures Ltd.
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5
CANADA

CC: Jim Cuttle

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX1	31	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

CERTIFICATE OF ANALYSIS

SMI12000527R.1

Method Analyte Unit MDL		1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001	1DX La ppm 1	
2100008	Rock Pulp	4.1	31.5	4.3	49	0.2	23.3	8.8	379	2.38	6.1	277.6	0.7	33	0.2	0.7	0.1	54	0.73	0.056	3	
2100009	Drill Core	0.3	18.5	4.7	66	5.3	2.8	7.8	781	2.14	21.3	366.8	1.5	19	0.1	0.7	<0.1	41	0.80	0.099	13	
2100010	Dup of 2100009	CORE DUP	0.3	18.5	4.5	65	6.3	3.2	7.9	766	2.18	22.0	215.9	1.5	19	0.1	0.8	<0.1	42	0.79	0.097	13
2100011	Drill Core	0.4	16.8	5.7	72	1.1	3.3	8.4	1140	2.32	29.9	82.5	1.7	20	0.1	0.7	<0.1	38	0.98	0.091	13	
2100012	Drill Core	0.5	21.0	5.5	67	1.1	4.7	8.2	681	2.31	26.5	60.6	1.5	15	0.2	0.8	<0.1	38	0.52	0.088	12	
2100013	Drill Core	0.5	16.3	6.2	76	1.6	4.1	8.9	906	2.44	38.8	187.6	1.4	15	0.2	0.8	<0.1	41	0.78	0.109	12	
2100014	Drill Core	0.5	21.0	5.8	67	2.2	5.0	9.2	711	2.67	47.3	107.7	1.3	19	0.1	0.9	<0.1	46	0.76	0.257	13	
2100015	Drill Core	0.5	22.6	4.8	59	2.3	3.7	7.9	869	2.30	26.9	69.7	1.6	29	0.1	0.8	<0.1	43	1.96	0.099	13	
2100016	Drill Core	0.2	19.8	5.9	87	1.0	4.9	10.1	836	2.68	36.2	33.7	1.3	16	0.1	0.7	<0.1	41	0.41	0.113	14	
2100017	Drill Core	0.2	20.0	6.6	65	1.1	4.5	10.1	940	2.81	32.3	32.4	1.6	17	0.2	0.6	<0.1	40	0.46	0.119	19	
2100018	Drill Core	0.2	22.2	5.9	56	2.2	7.6	11.8	852	3.00	33.1	62.8	1.3	13	0.1	0.8	<0.1	49	0.68	0.111	11	
2100019	Drill Core	0.2	20.6	5.5	59	1.8	7.5	11.8	908	3.09	28.7	98.0	1.2	11	0.2	0.7	<0.1	58	0.57	0.119	12	
2100020	Drill Core	0.1	19.7	5.5	101	2.8	4.8	11.0	996	3.06	24.8	201.8	1.4	13	<0.1	0.7	<0.1	62	0.57	0.143	13	
2100021	Drill Core	<0.1	27.0	4.2	68	1.6	6.5	13.7	1396	3.44	36.9	105.1	1.0	15	<0.1	0.7	<0.1	75	1.21	0.127	12	
2100022	Drill Core	0.1	45.6	3.0	58	2.4	19.0	23.7	1637	4.53	56.3	82.1	0.8	25	<0.1	1.1	<0.1	116	2.09	0.100	10	
2100023	Drill Core	<0.1	49.8	2.7	51	2.7	17.9	21.0	1547	4.25	58.3	75.0	0.7	98	<0.1	1.0	<0.1	101	4.52	0.088	9	
2100024	Drill Core	0.2	40.0	4.4	46	1.5	9.5	13.1	1289	3.30	49.8	100.8	0.9	39	<0.1	0.7	<0.1	63	3.22	0.077	12	
2100025	Drill Core	0.2	28.9	2.6	35	1.7	11.9	12.6	1428	2.99	86.1	61.1	0.6	230	<0.1	0.9	<0.1	70	7.68	0.066	8	
2100026	Drill Core	0.4	52.3	2.4	52	1.6	18.8	21.3	1418	4.42	144.1	79.2	0.7	68	<0.1	1.1	<0.1	96	4.06	0.102	9	
2100027	Drill Core	0.2	48.2	2.1	47	1.6	15.5	17.9	1077	4.06	122.5	96.8	0.7	59	<0.1	0.9	<0.1	90	4.65	0.090	8	
2100028	Drill Core	<0.1	40.1	1.8	49	1.2	17.5	20.5	1161	4.22	77.2	67.8	0.7	57	<0.1	0.9	<0.1	99	3.96	0.094	9	
2100029	Drill Core	0.2	37.4	3.6	43	1.4	11.1	14.1	1047	3.24	61.5	77.7	0.6	110	<0.1	0.9	<0.1	69	5.06	0.085	9	
2100030	Drill Core	<0.1	32.9	5.8	42	1.6	7.7	8.3	535	2.30	41.1	75.7	0.6	45	0.2	0.6	<0.1	32	1.58	0.037	8	
2100031	Drill Core	0.2	24.1	7.9	47	2.6	3.4	6.3	632	2.15	47.3	205.0	1.0	45	<0.1	1.0	0.1	19	1.63	0.048	12	
2100032	Drill Core	0.1	31.1	8.4	47	1.3	2.7	5.6	699	2.00	40.0	93.4	0.8	54	0.1	0.6	0.1	20	2.00	0.044	11	
2100033	Drill Core	0.1	15.9	4.3	43	1.5	4.8	5.3	1043	1.70	44.1	188.9	0.8	200	0.2	1.2	<0.1	13	5.09	0.048	11	
2100034	Rock Pulp	2.2	22.4	2.1	44	0.2	20.8	8.5	387	2.24	4.7	25.9	0.7	32	0.1	0.2	<0.1	54	0.77	0.055	3	
2100035	Drill Core	1.0	7.9	24.8	152	0.9	1.8	2.5	1605	0.71	39.0	25.8	0.8	172	3.9	0.8	0.1	2	6.28	0.012	7	
2100036	Drill Core	0.3	13.3	3.7	36	1.6	5.7	4.1	1115	1.27	45.1	51.3	1.1	105	0.1	1.9	<0.1	9	3.85	0.028	8	
2100037	Drill Core	0.2	7.6	11.7	51	0.5	1.8	2.2	578	1.24	19.5	13.4	3.0	39	0.2	0.6	<0.1	3	1.08	0.018	15	

CERTIFICATE OF ANALYSIS

SMI12000527R.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
2100008	Rock Pulp	30	0.70	90	0.090	<20	1.41	0.076	0.13	10.7	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2	
2100009	Drill Core	5	0.56	24	0.072	<20	0.71	0.024	0.13	0.7	0.02	5.3	<0.1	0.43	4	<0.5	<0.2	
2100010	Dup of 2100009	CORE DUP	5	0.56	24	0.072	<20	0.69	0.023	0.14	0.3	0.01	5.3	<0.1	0.45	5	<0.5	<0.2
2100011	Drill Core	5	0.57	23	0.083	<20	0.77	0.019	0.15	0.2	0.01	5.1	<0.1	0.58	4	<0.5	<0.2	
2100012	Drill Core	7	0.58	23	0.070	<20	0.71	0.022	0.15	0.2	0.02	4.9	<0.1	0.71	4	<0.5	<0.2	
2100013	Drill Core	5	0.65	17	0.062	<20	0.82	0.021	0.12	0.3	0.02	4.6	<0.1	0.91	6	<0.5	<0.2	
2100014	Drill Core	5	0.68	19	0.053	<20	0.92	0.021	0.14	0.5	0.02	4.9	<0.1	1.15	6	<0.5	<0.2	
2100015	Drill Core	6	0.48	27	0.079	<20	0.65	0.025	0.14	0.3	0.02	5.3	<0.1	0.49	4	<0.5	<0.2	
2100016	Drill Core	5	0.74	24	0.042	<20	0.99	0.022	0.19	0.1	0.02	5.2	<0.1	0.81	5	<0.5	<0.2	
2100017	Drill Core	5	0.85	22	0.052	<20	1.04	0.024	0.17	0.1	0.02	5.2	<0.1	0.82	6	<0.5	<0.2	
2100018	Drill Core	10	0.90	21	0.062	<20	1.04	0.017	0.14	0.1	0.01	5.7	<0.1	0.91	5	<0.5	<0.2	
2100019	Drill Core	9	1.02	20	0.069	<20	1.12	0.021	0.12	0.1	<0.01	6.8	<0.1	0.89	6	1.0	<0.2	
2100020	Drill Core	7	0.90	20	0.087	<20	0.97	0.025	0.13	0.1	0.01	5.3	<0.1	0.80	6	0.9	<0.2	
2100021	Drill Core	7	1.40	15	0.054	<20	1.46	0.028	0.09	<0.1	<0.01	7.3	<0.1	0.88	8	<0.5	<0.2	
2100022	Drill Core	17	2.32	13	0.027	<20	2.22	0.018	0.07	<0.1	<0.01	13.4	<0.1	1.14	12	<0.5	<0.2	
2100023	Drill Core	15	2.17	11	0.025	<20	2.03	0.016	0.07	<0.1	<0.01	11.6	<0.1	1.18	11	<0.5	<0.2	
2100024	Drill Core	9	1.08	15	0.036	<20	1.29	0.014	0.14	<0.1	<0.01	7.0	<0.1	1.13	7	<0.5	<0.2	
2100025	Drill Core	11	0.95	12	0.053	<20	0.95	0.025	0.07	<0.1	0.01	8.4	<0.1	1.05	6	1.0	<0.2	
2100026	Drill Core	15	2.10	11	0.029	<20	1.93	0.025	0.07	<0.1	<0.01	9.1	<0.1	2.19	10	0.7	<0.2	
2100027	Drill Core	15	1.38	16	0.045	<20	1.61	0.029	0.10	<0.1	<0.01	8.2	<0.1	1.50	8	0.8	<0.2	
2100028	Drill Core	17	1.82	21	0.037	<20	1.78	0.032	0.07	<0.1	0.01	9.3	<0.1	1.02	9	<0.5	<0.2	
2100029	Drill Core	12	1.17	15	0.026	<20	1.25	0.025	0.08	<0.1	0.03	6.7	<0.1	1.00	7	<0.5	<0.2	
2100030	Drill Core	8	0.52	24	0.025	<20	0.79	0.007	0.18	<0.1	0.01	4.7	<0.1	0.92	4	<0.5	<0.2	
2100031	Drill Core	3	0.36	25	0.011	<20	0.65	0.004	0.19	<0.1	0.01	4.4	<0.1	0.68	3	<0.5	<0.2	
2100032	Drill Core	<1	0.37	26	0.010	<20	0.66	0.003	0.18	<0.1	<0.01	4.4	<0.1	0.88	3	<0.5	<0.2	
2100033	Drill Core	8	0.48	26	0.010	<20	0.59	0.005	0.12	0.1	0.05	2.6	0.1	0.75	2	<0.5	<0.2	
2100034	Rock Pulp	27	0.71	96	0.094	<20	1.47	0.084	0.13	9.0	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2	
2100035	Drill Core	6	0.08	9	0.011	<20	0.17	0.003	0.11	0.3	0.09	1.4	0.2	0.42	<1	<0.5	<0.2	
2100036	Drill Core	13	0.26	15	0.013	<20	0.34	0.007	0.12	<0.1	0.12	2.0	0.2	0.70	2	<0.5	<0.2	
2100037	Drill Core	2	0.22	46	0.004	<20	0.45	0.004	0.20	<0.1	0.05	1.3	<0.1	0.63	2	<0.5	<0.2	



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Client: **Venerable Ventures Ltd.**
2644 Kilmarnock Crescent
North Vancouver BC V7J 2Z5 CANADA

Project: Trout Property
Report Date: December 17, 2012

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CERTIFICATE OF ANALYSIS

SMI12000527R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2100038	Rock Pulp	23.5	68.2	16.1	128	1.6	67.4	7.0	296	2.66	656.8	29.0	1.4	27	2.0	8.6	3.7	48	1.92	0.080



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Project: Trout Property
Report Date: December 17, 2012

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Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000527R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
2100038	Rock Pulp	18	0.81	90	<0.001	<20	0.23	0.003	0.17	1.7	5.30	2.8	1.9	1.76	<1	5.9



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Project: Trout Property
Report Date: December 17, 2012

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QUALITY CONTROL REPORT

SMI12000527R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																				
2100008	Rock Pulp	4.1	31.5	4.3	49	0.2	23.3	8.8	379	2.38	6.1	277.6	0.7	33	0.2	0.7	0.1	54	0.73	0.056
REP 2100008	QC	4.3	31.6	4.6	50	0.2	23.2	9.1	385	2.42	5.7	733.9	0.7	34	0.2	0.7	0.1	55	0.76	0.055
Reference Materials																				
STD DS9	Standard	11.7	101.1	119.4	307	1.7	38.4	7.2	573	2.31	26.5	119.6	4.8	57	2.3	4.4	5.6	38	0.69	0.084
STD OREAS45EA	Standard	1.5	677.4	12.5	32	0.3	375.4	51.5	406	23.95	10.2	105.1	8.5	3	<0.1	0.3	0.2	290	0.04	0.031
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

SMI12000527R.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																
2100008	Rock Pulp	30	0.70	90	0.090	<20	1.41	0.076	0.13	10.7	0.03	4.2	<0.1	<0.05	5	<0.5
REP 2100008	QC	30	0.71	97	0.094	<20	1.45	0.079	0.13	10.8	0.04	4.4	<0.1	<0.05	5	<0.5
Reference Materials																
STD DS9	Standard	112	0.60	313	0.087	<20	0.89	0.078	0.39	3.1	0.19	2.2	5.2	0.16	4	5.4
STD OREAS45EA	Standard	989	0.09	150	0.080	<20	3.03	0.025	0.05	<0.1	<0.01	78.2	<0.1	<0.05	12	0.8
STD OREAS45EA Expected		849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5

APPENDIX V Drill core repeats – ALS Canada Ltd. (Certificates)



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: VENERABLE VENTURES LTD
610 - 837 WEST HASTINGS ST
VANCOUVER BC V6C 3N6

Page: 1
Finalized Date: 26- FEB- 2013
This copy reported on
28- FEB- 2013
Account: RESVEN

CERTIFICATE VA13029638

Project: Trout Property 2012 Drill Prog

P.O. No.:

This report is for 218 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 13- FEB- 2013.

The following have access to data associated with this certificate:

JIM CUTTLE

MICHAEL FRYE

RYAN SHARP

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
BAG- 01	Bulk Master for Storage
SPL- 34	Pulp Splitting Charge
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
LOG- 22d	Sample login - Rcd w/o BarCode dup

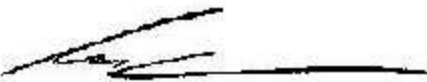
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41a	High Grade Aqua Regia ICP- AES	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: VENERABLE VENTURES LTD
ATTN: JIM CUTTLE
610 - 837 WEST HASTINGS ST
VANCOUVER BC V6C 3N6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: 2 - A
Total # Pages: 7 (A - C)
Finalized Date: 26- FEB- 2013
Account: RESVEN

Project: Trout Property 2012 Drill Prog

CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099403		4.04	0.008	1	1.59	10	220	<5	<10	3.14	<5	8	9	17	2.65	<50
2099404		4.30	0.007	1	1.80	10	280	<5	<10	3.67	<5	10	5	19	2.61	<50
2099405		0.08	0.827	1	1.77	<10	120	<5	<10	1.12	<5	7	37	26	2.82	<50
2099406		4.10	0.008	<1	1.60	<10	150	<5	<10	2.21	<5	11	<5	<5	2.73	<50
2099407		4.22	0.008	1	1.75	<10	160	<5	<10	2.43	<5	9	<5	<5	3.27	<50
2099408		3.60	0.011	1	1.32	10	110	<5	<10	3.10	<5	7	<5	<5	2.87	<50
2099409		3.76	0.010	1	1.60	10	130	<5	<10	2.27	<5	8	<5	6	2.47	<50
2099410		3.50	0.004	<1	1.37	<10	120	<5	<10	2.25	<5	9	<5	27	2.29	<50
2099411		4.06	0.005	<1	1.81	<10	140	<5	<10	3.90	<5	5	<5	<5	2.37	<50
2099412		3.22	0.009	1	1.52	<10	140	<5	<10	9.74	<5	7	<5	<5	2.35	<50
2099413		3.42	0.010	<1	1.47	<10	230	<5	<10	4.19	<5	11	<5	<5	3.32	<50
2099414		3.80	0.012	1	1.49	<10	200	<5	<10	4.18	<5	17	6	36	4.31	<50
2099415		3.70	0.015	1	2.59	10	210	<5	<10	4.64	<5	29	28	94	5.31	<50
2099416		4.06	0.012	1	2.87	10	210	<5	10	3.75	<5	25	36	78	5.14	<50
2099417		4.22	0.005	<1	3.29	<10	550	<5	<10	4.58	<5	22	35	58	5.01	<50
2099418		4.00	0.009	1	1.80	<10	150	<5	<10	3.02	<5	16	10	39	4.00	<50
2099419		3.82	0.005	<1	1.67	10	190	<5	<10	2.35	<5	8	<5	13	2.72	<50
2099420		0.08	0.003	<1	1.68	<10	110	<5	10	1.05	<5	10	31	25	2.42	<50
2099421		3.76	0.008	1	1.48	<10	200	<5	<10	2.72	7	10	<5	7	2.84	<50
2099422		3.30	0.006	<1	1.43	10	220	<5	<10	1.56	<5	9	<5	<5	2.17	<50
2099423		0.08	3.92	1	0.52	690	2770	<5	<10	2.09	<5	8	25	68	2.86	<50
2099424		3.74	0.010	1	1.39	10	200	<5	<10	3.08	<5	13	6	21	2.62	<50
2099425		4.06	0.006	1	1.06	<10	170	<5	<10	4.91	<5	15	<5	<5	2.08	<50
2099426		4.20	0.006	1	1.48	20	200	<5	<10	2.30	<5	10	<5	<5	2.25	<50
2099427		3.56	0.002	<1	1.97	10	330	<5	<10	1.46	<5	7	<5	<5	2.52	<50
2099428		4.20	0.006	<1	1.82	<10	300	<5	<10	1.64	<5	5	<5	<5	3.27	<50
2099429		3.26	0.009	<1	1.86	20	370	<5	<10	1.98	<5	7	<5	18	3.18	<50
2099430		3.66	0.008	<1	1.71	<10	260	<5	10	3.12	<5	7	<5	27	3.69	<50
2099431		4.14	0.009	<1	2.00	<10	240	<5	<10	2.59	<5	<5	<5	20	3.90	<50
2099432		4.02	0.007	<1	1.81	10	270	<5	<10	2.95	<5	<5	<5	15	3.67	<50
2099433		4.44	0.007	<1	1.69	10	240	<5	<10	2.26	<5	<5	<5	8	3.33	<50
2099434		3.50	0.005	<1	1.60	<10	200	<5	<10	2.85	<5	6	<5	<5	3.54	<50
2099435		3.58	0.003	<1	1.61	<10	180	<5	<10	3.71	<5	<5	<5	5	2.82	<50
2099436		3.54	0.004	<1	1.47	<10	200	<5	<10	3.35	<5	<5	<5	21	3.02	<50
2099437		3.80	0.002	<1	1.53	20	720	<5	10	2.17	<5	<5	<5	18	3.03	<50
2099438		3.84	0.002	<1	1.68	10	220	<5	<10	2.11	<5	<5	<5	29	2.89	<50
2099439		4.22	0.003	<1	1.55	<10	160	<5	10	2.72	<5	7	<5	14	3.38	<50
2099440		3.82	0.006	1	1.52	<10	150	<5	10	2.54	<5	9	<5	<5	3.42	<50
2099441		3.98	0.005	<1	1.70	<10	160	<5	<10	2.42	<5	5	<5	34	3.26	<50
2099442		4.00	0.022	5	1.30	<10	150	<5	<10	3.27	31	<5	<5	<5	1.40	<50



ALS Canada Ltd.
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Page: 2 - B
Total # Pages: 7 (A - C)
Finalized Date: 26- FEB- 2013
Account: RESVEN

Project: Trout Property 2012 Drill Prog

CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099403		<5	0.76	<50	0.70	1560	<5	<0.05	<5	1260	20	1.99	<10	<5	216
2099404		<5	0.92	<50	0.82	1890	<5	<0.05	7	1230	30	1.98	<10	<5	239
2099405		<5	0.18	<50	0.74	460	<5	0.11	21	580	<10	0.06	<10	6	51
2099406		<5	0.84	<50	0.63	1240	<5	<0.05	<5	1300	20	2.39	<10	<5	139
2099407		<5	0.97	<50	0.79	1230	<5	<0.05	<5	1360	30	3.06	10	<5	138
2099408		<5	0.74	<50	0.48	1310	<5	<0.05	<5	1360	30	2.70	<10	<5	125
2099409		<5	0.90	<50	0.50	1030	<5	<0.05	<5	1270	30	2.21	10	<5	124
2099410		<5	0.73	<50	0.93	1150	<5	<0.05	29	1490	50	1.71	<10	<5	180
2099411		<5	0.91	<50	0.79	1470	<5	<0.05	<5	1360	20	1.60	<10	<5	179
2099412		<5	0.79	<50	0.73	3940	<5	<0.05	<5	1190	60	1.60	<10	<5	336
2099413		<5	0.73	<50	0.66	1790	<5	<0.05	<5	1360	80	3.07	<10	<5	207
2099414		<5	0.66	<50	0.73	1750	<5	<0.05	<5	1300	40	3.94	<10	<5	240
2099415		<5	0.79	<50	1.51	2670	<5	0.05	22	1280	10	3.94	10	10	214
2099416		<5	0.55	<50	1.98	2570	<5	0.08	26	1320	<10	3.32	<10	9	205
2099417		<5	0.63	<50	2.44	3540	<5	0.05	16	1260	<10	1.91	10	10	231
2099418		<5	0.60	<50	0.86	1620	<5	0.06	5	1320	<10	2.75	<10	5	186
2099419		<5	0.72	<50	0.67	1060	<5	<0.05	<5	1380	30	2.12	<10	<5	154
2099420		<5	0.18	<50	0.71	440	<5	0.12	28	590	<10	<0.05	<10	6	48
2099421		<5	0.67	<50	0.53	1140	<5	0.05	<5	1200	100	2.55	<10	<5	93
2099422		<5	0.67	<50	0.46	620	<5	<0.05	<5	1420	60	2.06	<10	<5	70
2099423		<5	0.31	<50	0.81	310	23	<0.05	68	810	10	1.96	10	<5	39
2099424		<5	0.56	<50	0.51	1010	<5	<0.05	5	1340	60	3.08	<10	<5	105
2099425		<5	0.59	<50	0.22	1180	<5	<0.05	<5	1110	30	2.08	<10	<5	129
2099426		<5	0.67	<50	0.52	940	<5	<0.05	<5	1290	30	1.90	<10	<5	95
2099427		<5	0.83	<50	0.68	980	<5	<0.05	<5	1300	<10	1.29	<10	<5	85
2099428		<5	0.73	<50	0.69	1020	<5	<0.05	<5	1220	<10	2.27	<10	<5	83
2099429		<5	0.81	<50	0.65	1130	<5	<0.05	<5	1240	10	2.41	<10	<5	83
2099430		<5	0.71	<50	0.62	1510	<5	<0.05	<5	1340	40	3.02	<10	<5	111
2099431		<5	0.80	<50	0.81	1110	<5	<0.05	<5	1380	30	3.58	<10	<5	110
2099432		<5	0.74	<50	0.73	1240	<5	<0.05	<5	1350	10	3.35	<10	<5	114
2099433		<5	0.66	<50	0.71	1050	<5	<0.05	<5	1360	10	2.80	<10	<5	111
2099434		<5	0.64	<50	0.89	1200	<5	<0.05	<5	1340	20	3.15	<10	<5	146
2099435		<5	0.81	<50	0.56	1560	<5	<0.05	<5	1420	20	2.07	<10	<5	125
2099436		<5	0.67	<50	0.51	1510	<5	<0.05	<5	1380	10	1.89	<10	<5	118
2099437		<5	0.61	<50	0.54	1140	<5	<0.05	<5	1280	10	1.44	<10	<5	98
2099438		<5	0.57	<50	0.62	1200	<5	0.05	<5	1310	10	1.14	<10	5	93
2099439		<5	0.67	<50	0.71	1250	<5	<0.05	<5	1320	30	2.48	<10	<5	147
2099440		<5	0.64	<50	0.76	1240	<5	<0.05	<5	1290	50	2.62	<10	<5	149
2099441		<5	0.75	<50	0.64	1270	<5	<0.05	<5	1300	60	1.88	<10	<5	116
2099442		<5	0.68	<50	0.48	1100	<5	<0.05	<5	1150	1480	0.88	<10	<5	139



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099403		<0.05	<50	<50	30	<50	200
2099404		<0.05	<50	<50	32	<50	190
2099405		0.20	<50	<50	74	<50	50
2099406		<0.05	<50	<50	22	<50	100
2099407		<0.05	<50	<50	19	<50	100
2099408		<0.05	<50	<50	15	<50	160
2099409		<0.05	<50	<50	18	<50	150
2099410		<0.05	<50	<50	19	<50	100
2099411		<0.05	<50	<50	24	<50	240
2099412		<0.05	<50	<50	18	<50	210
2099413		<0.05	<50	<50	20	<50	270
2099414		<0.05	<50	<50	27	<50	150
2099415		<0.05	<50	<50	76	<50	460
2099416		<0.05	<50	<50	96	<50	130
2099417		<0.05	<50	<50	107	<50	160
2099418		<0.05	<50	<50	40	<50	180
2099419		<0.05	<50	<50	25	<50	160
2099420		0.19	<50	<50	67	<50	40
2099421		<0.05	<50	<50	19	<50	680
2099422		<0.05	<50	<50	18	<50	160
2099423		<0.05	<50	<50	90	<50	140
2099424		<0.05	<50	<50	24	<50	270
2099425		<0.05	<50	<50	14	<50	50
2099426		<0.05	<50	<50	15	<50	100
2099427		<0.05	<50	<50	24	<50	50
2099428		<0.05	<50	<50	23	<50	50
2099429		<0.05	<50	<50	23	<50	60
2099430		<0.05	<50	<50	23	<50	80
2099431		<0.05	<50	<50	20	<50	70
2099432		<0.05	<50	<50	20	<50	60
2099433		<0.05	<50	<50	23	<50	60
2099434		<0.05	<50	<50	20	<50	60
2099435		<0.05	<50	<50	22	<50	80
2099436		<0.05	<50	<50	23	<50	80
2099437		<0.05	<50	<50	27	<50	90
2099438		<0.05	<50	<50	30	<50	120
2099439		<0.05	<50	<50	26	<50	110
2099440		<0.05	<50	<50	23	<50	140
2099441		<0.05	<50	<50	19	<50	160
2099442		<0.05	<50	<50	19	<50	2500



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41a Ag ppm 1	ME- ICP41a Al % 0.05	ME- ICP41a As ppm 10	ME- ICP41a Ba ppm 50	ME- ICP41a Be ppm 5	ME- ICP41a Bi ppm 10	ME- ICP41a Ca % 0.05	ME- ICP41a Cd ppm 5	ME- ICP41a Co ppm 5	ME- ICP41a Cr ppm 5	ME- ICP41a Cu ppm 5	ME- ICP41a Fe % 0.05	ME- ICP41a Ga ppm 50
2099443		4.02	0.099	5	1.45	<10	160	<5	<10	3.62	6	13	9	98	5.01	<50
2099444		3.48	0.007	1	1.55	<10	170	<5	10	3.26	<5	9	<5	<5	3.36	<50
2099445		4.02	0.009	2	1.72	<10	230	<5	20	2.23	<5	9	<5	5	3.78	<50
2099446		4.08	0.003	<1	1.63	<10	370	<5	<10	2.72	<5	6	<5	<5	2.62	<50
2099512		3.04	0.002	<1	2.52	10	380	<5	10	2.31	<5	9	21	33	3.36	<50
2099513		3.40	0.003	<1	1.75	20	300	<5	10	2.42	<5	7	12	16	2.94	<50
2099514		4.08	0.005	<1	0.85	40	190	<5	10	2.68	<5	7	<5	<5	2.76	<50
2099515		3.98	0.004	1	0.78	30	120	<5	<10	2.86	<5	<5	<5	<5	2.48	<50
2099516		4.02	0.009	<1	0.75	40	120	<5	10	3.28	<5	5	<5	<5	2.96	<50
2099517		3.80	0.006	<1	1.10	50	130	<5	10	2.68	<5	7	<5	<5	3.21	<50
2099518		4.12	0.003	<1	1.50	10	150	<5	<10	2.57	<5	5	<5	<5	3.12	<50
2099519		3.20	0.002	<1	1.55	10	180	<5	<10	1.01	<5	<5	<5	<5	2.68	<50
2099520		3.40	0.002	<1	1.43	20	150	<5	<10	1.44	<5	<5	<5	12	2.78	<50
2099521		2.14	0.003	<1	1.59	20	200	<5	<10	1.71	<5	<5	<5	<5	2.75	<50
2099522		3.40	0.005	1	1.24	60	170	<5	10	0.81	<5	6	<5	5	2.36	<50
2099523		3.96	0.007	1	1.00	80	130	<5	<10	0.50	<5	6	<5	<5	3.19	<50
2099524		3.96	0.008	<1	1.07	80	130	<5	10	0.97	<5	5	<5	5	3.59	<50
2099525		2.90	0.015	4	1.03	30	120	<5	20	1.93	<5	9	12	11	2.59	<50
2099526		2.90	0.015	5	1.00	40	120	<5	10	1.32	<5	13	17	43	2.90	<50
2099527		3.50	0.010	3	0.87	50	100	<5	<10	1.47	8	6	13	24	2.70	<50
2099528		3.84	0.009	2	1.31	30	150	<5	<10	1.13	8	8	16	29	2.92	<50
2099529		3.56	0.007	1	1.68	20	140	<5	10	0.41	<5	15	37	44	3.52	<50
2099530		3.92	0.019	1	0.69	30	70	<5	10	0.59	<5	6	13	18	2.44	<50
2099531		2.34	0.028	3	0.59	50	100	<5	<10	0.16	<5	18	9	47	2.62	<50
2099532		4.22	0.012	1	0.71	20	110	<5	<10	0.31	<5	11	<5	49	2.45	<50
2099533		3.84	0.006	1	1.02	20	140	<5	<10	0.31	<5	7	<5	17	1.74	<50
2099534		4.06	0.003	<1	1.00	30	220	<5	<10	1.27	<5	7	<5	<5	2.51	<50
2099535		1.86	0.006	1	1.40	50	120	<5	<10	0.37	<5	6	<5	20	2.63	<50
2099536		4.26	0.003	1	1.39	30	130	<5	<10	0.98	7	5	<5	39	2.50	<50
2099537		3.42	0.007	1	1.22	70	330	<5	<10	0.42	<5	7	<5	<5	2.40	<50
2099538		4.56	0.002	1	1.33	30	140	<5	<10	1.21	<5	5	<5	6	2.60	<50
2099622		3.18	0.006	1	1.34	50	410	<5	<10	1.32	<5	6	<5	7	2.34	<50
2099623		0.44	0.012	<1	1.68	30	180	<5	<10	2.46	<5	<5	<5	7	2.59	<50
2099624		2.76	0.013	2	1.15	90	600	<5	<10	0.73	<5	11	<5	11	2.49	<50
2099625		3.94	0.002	<1	1.46	30	1390	<5	<10	0.33	<5	7	<5	7	1.86	<50
2099626		3.00	0.014	1	0.87	60	130	<5	<10	0.98	<5	6	<5	20	2.71	<50
2099627		3.00	0.006	1	1.08	20	190	<5	<10	0.81	<5	9	<5	36	2.39	<50
2099628		3.90	0.004	1	1.11	20	190	<5	<10	0.95	<5	9	<5	16	2.10	<50
2099629		3.68	0.012	<1	1.04	50	180	<5	<10	0.77	<5	7	<5	32	2.66	<50
2099630		4.04	0.007	1	1.15	30	370	<5	<10	0.49	<5	6	<5	21	2.10	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099443		<5	0.65	<50	0.64	1410	<5	<0.05	13	1400	260	5.07	<10	<5	133
2099444		<5	0.67	<50	0.64	1290	<5	<0.05	<5	1290	120	2.92	<10	<5	128
2099445		<5	0.87	<50	0.61	1120	<5	<0.05	<5	1160	120	3.25	<10	<5	96
2099446		<5	0.79	<50	0.94	1140	<5	<0.05	<5	1190	60	1.95	<10	<5	140
2099512		<5	0.42	<50	0.45	1060	<5	0.07	12	1090	10	<0.05	<10	5	319
2099513		<5	0.35	<50	0.37	1060	<5	<0.05	<5	870	<10	0.52	<10	<5	257
2099514		<5	0.44	<50	0.07	870	<5	<0.05	<5	1070	20	2.84	<10	<5	143
2099515		<5	0.36	<50	0.10	1240	<5	<0.05	<5	990	20	2.41	<10	<5	140
2099516		<5	0.38	<50	0.09	1530	10	<0.05	<5	1090	20	3.07	<10	<5	139
2099517		<5	0.38	<50	0.24	1460	<5	<0.05	<5	1030	30	2.78	<10	<5	169
2099518		<5	0.46	<50	0.33	1470	<5	<0.05	<5	1000	10	2.01	<10	<5	220
2099519		<5	0.44	<50	0.26	880	<5	0.05	<5	1140	10	0.95	<10	<5	233
2099520		<5	0.39	<50	0.28	1220	<5	0.05	<5	1170	20	0.94	<10	<5	250
2099521		<5	0.49	<50	0.25	1330	<5	0.05	<5	1150	10	1.19	<10	<5	237
2099522		<5	0.48	<50	0.15	650	19	<0.05	<5	1140	10	1.50	<10	<5	149
2099523		<5	0.41	<50	0.18	610	5	<0.05	<5	1100	20	2.78	<10	<5	123
2099524		<5	0.43	<50	0.26	1110	8	<0.05	<5	1210	70	3.09	<10	<5	107
2099525		<5	0.41	<50	0.37	1560	<5	<0.05	21	660	250	1.88	<10	<5	72
2099526		<5	0.38	<50	0.31	1200	<5	<0.05	32	790	100	2.21	<10	<5	53
2099527		<5	0.35	<50	0.31	1470	<5	<0.05	30	710	130	2.34	<10	<5	71
2099528		<5	0.45	<50	0.33	1910	<5	<0.05	30	500	80	1.46	<10	<5	78
2099529		<5	0.33	<50	0.37	1590	<5	<0.05	65	500	60	0.77	<10	<5	54
2099530		<5	0.23	<50	0.17	880	<5	<0.05	29	430	10	1.53	<10	<5	40
2099531		<5	0.33	<50	0.07	140	<5	<0.05	38	590	60	2.57	<10	<5	31
2099532		<5	0.53	<50	0.09	80	12	<0.05	<5	1120	20	2.64	<10	<5	74
2099533		<5	0.65	<50	0.15	190	<5	0.05	<5	1050	40	1.30	<10	<5	93
2099534		<5	0.58	<50	0.28	850	<5	<0.05	<5	1060	20	1.90	<10	<5	165
2099535		<5	0.59	<50	0.36	480	7	0.05	<5	1160	50	1.20	<10	<5	88
2099536		<5	0.70	<50	0.39	740	<5	0.05	<5	1100	160	1.37	<10	<5	103
2099537		<5	0.69	<50	0.33	410	<5	<0.05	<5	1070	50	1.50	<10	<5	72
2099538		<5	0.68	<50	0.42	870	<5	0.06	<5	1090	90	1.13	<10	<5	115
2099622		<5	0.65	<50	0.26	1780	<5	0.06	<5	1290	40	0.54	<10	<5	156
2099623		<5	0.79	<50	0.37	2830	<5	0.05	<5	1120	30	0.73	<10	<5	161
2099624		<5	0.66	<50	0.14	1490	<5	<0.05	<5	1080	70	1.48	<10	<5	98
2099625		<5	0.85	<50	0.13	880	<5	0.05	<5	1150	10	0.31	<10	<5	96
2099626		<5	0.53	<50	0.13	1550	30	0.05	<5	1040	130	2.31	<10	<5	142
2099627		<5	0.66	<50	0.12	980	8	0.06	<5	1130	110	1.96	<10	<5	159
2099628		<5	0.63	<50	0.15	1030	11	0.06	<5	1130	40	1.36	<10	<5	210
2099629		<5	0.63	<50	0.12	1130	38	0.05	<5	1040	80	2.09	<10	<5	159
2099630		<5	0.64	<50	0.12	850	11	0.07	<5	1170	70	1.14	10	<5	103



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099443		<0.05	<50	<50	40	<50	510
2099444		<0.05	<50	<50	24	<50	290
2099445		<0.05	<50	<50	19	<50	400
2099446		<0.05	<50	<50	20	<50	140
2099512		<0.05	<50	<50	44	<50	60
2099513		<0.05	<50	<50	23	<50	60
2099514		<0.05	<50	<50	5	<50	40
2099515		<0.05	<50	<50	5	<50	50
2099516		<0.05	<50	<50	5	<50	40
2099517		<0.05	<50	<50	6	<50	80
2099518		<0.05	<50	<50	9	<50	50
2099519		<0.05	<50	<50	11	<50	70
2099520		<0.05	<50	<50	14	<50	70
2099521		<0.05	<50	<50	14	<50	50
2099522		<0.05	<50	<50	9	<50	60
2099523		<0.05	<50	<50	6	<50	70
2099524		<0.05	<50	<50	9	<50	250
2099525		<0.05	<50	<50	17	<50	430
2099526		<0.05	<50	<50	20	<50	150
2099527		<0.05	<50	<50	13	<50	1100
2099528		<0.05	<50	<50	22	<50	1130
2099529		<0.05	<50	<50	37	<50	340
2099530		<0.05	<50	<50	13	<50	140
2099531		<0.05	<50	<50	10	<50	120
2099532		<0.05	<50	<50	7	<50	90
2099533		<0.05	<50	<50	9	<50	320
2099534		<0.05	<50	<50	9	<50	90
2099535		<0.05	<50	<50	15	<50	330
2099536		<0.05	<50	<50	14	<50	580
2099537		<0.05	<50	<50	14	<50	100
2099538		<0.05	<50	<50	14	<50	290
2099622		<0.05	<50	<50	15	<50	100
2099623		<0.05	<50	<50	15	<50	90
2099624		<0.05	<50	<50	8	<50	190
2099625		<0.05	<50	<50	11	<50	50
2099626		<0.05	<50	<50	9	<50	250
2099627		<0.05	<50	<50	11	<50	250
2099628		<0.05	<50	<50	11	<50	80
2099629		<0.05	<50	<50	9	<50	240
2099630		<0.05	<50	<50	10	<50	160



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41a Ag ppm 1	ME- ICP41a Al % 0.05	ME- ICP41a As ppm 10	ME- ICP41a Ba ppm 50	ME- ICP41a Be ppm 5	ME- ICP41a Bi ppm 10	ME- ICP41a Ca % 0.05	ME- ICP41a Cd ppm 5	ME- ICP41a Co ppm 5	ME- ICP41a Cr ppm 5	ME- ICP41a Cu ppm 5	ME- ICP41a Fe % 0.05	ME- ICP41a Ga ppm 50
2099631		3.92	0.011	1	0.99	20	450	<5	<10	0.34	<5	8	<5	17	2.35	<50
2099632		3.40	0.016	<1	0.97	50	90	<5	<10	0.29	<5	6	<5	21	1.89	<50
2099633		3.72	0.012	<1	1.17	80	110	<5	<10	0.44	<5	9	<5	25	2.54	<50
2099634		4.00	0.016	1	0.95	110	90	<5	<10	0.81	<5	7	<5	20	2.74	<50
2099635		3.60	0.011	1	1.10	50	100	<5	<10	1.34	<5	10	<5	26	2.30	<50
2099636		3.66	0.013	1	0.94	50	90	<5	<10	1.89	<5	9	<5	49	2.22	<50
2099637		3.56	0.010	1	1.16	40	90	<5	<10	1.46	<5	6	<5	23	1.91	<50
2099638		3.24	0.016	<1	0.99	90	120	<5	<10	1.37	<5	8	<5	24	2.79	<50
2099639		3.50	0.007	<1	1.34	30	90	<5	<10	0.72	<5	8	<5	9	1.91	<50
2099640		3.70	0.008	1	1.29	20	90	<5	<10	1.00	<5	8	<5	18	2.54	<50
2099641		4.00	0.013	<1	1.15	40	90	<5	<10	1.71	<5	6	<5	14	2.89	<50
2099642		3.92	0.009	<1	1.16	40	90	<5	<10	1.17	<5	12	<5	16	2.35	<50
2099643		3.92	0.009	<1	1.10	40	100	<5	<10	1.03	<5	8	<5	14	2.41	<50
2099644		3.94	0.009	<1	1.03	40	90	<5	<10	0.83	<5	7	<5	14	2.18	<50
2099645		4.24	0.005	1	1.25	60	90	<5	<10	0.91	<5	7	<5	13	2.37	<50
2099646		3.70	0.007	1	1.12	100	100	<5	<10	1.21	<5	7	<5	27	2.44	<50
2099647		4.52	0.035	1	1.04	70	90	<5	<10	1.65	<5	8	<5	18	2.81	<50
2099648		4.26	0.011	1	1.31	30	110	<5	<10	1.99	<5	7	<5	9	2.50	<50
2099649		3.30	0.012	1	1.17	10	320	<5	<10	3.02	<5	9	<5	17	2.74	<50
2099650		2.82	0.078	4	1.07	10	680	<5	<10	1.74	<5	8	<5	311	3.02	<50
2099651		3.92	0.023	3	1.26	50	710	<5	<10	3.35	6	9	<5	9	3.49	<50
2099652		3.70	0.016	1	1.23	20	360	<5	10	3.44	5	7	<5	11	3.13	<50
2099653		3.74	0.007	1	1.32	30	330	<5	<10	2.82	<5	8	<5	6	2.64	<50
2099654		4.00	0.007	<1	0.76	10	340	<5	<10	3.01	<5	5	<5	9	2.64	<50
2099655		3.04	0.007	1	0.80	20	140	<5	<10	2.48	<5	10	<5	<5	2.95	<50
2099656		<0.02	0.007	1	0.81	20	140	<5	10	2.52	<5	5	<5	<5	2.96	<50
2099657		3.16	0.009	1	0.76	10	100	<5	<10	1.59	<5	6	<5	7	2.47	<50
2099658		0.08	0.752	<1	1.68	<10	120	<5	<10	1.04	<5	11	33	32	2.66	<50
2099659		3.96	0.011	<1	0.83	10	200	<5	<10	0.93	<5	6	<5	29	3.01	<50
2099660		3.30	0.015	1	0.75	20	120	<5	<10	0.95	<5	9	<5	21	3.08	<50
2099661		2.26	0.015	<1	0.90	30	120	<5	<10	0.52	<5	<5	<5	26	2.80	<50
2099662		0.08	0.003	<1	1.72	<10	120	<5	10	1.07	<5	9	31	15	2.42	<50
2099663		3.74	0.012	1	0.78	30	120	<5	<10	1.17	<5	9	<5	9	3.08	<50
2099664		3.26	0.011	1	0.81	10	150	<5	<10	1.09	<5	7	<5	<5	2.70	<50
2099665		4.40	0.006	1	0.72	10	220	<5	<10	3.45	<5	6	<5	<5	2.29	<50
2099666		3.58	0.024	1	0.79	<10	110	<5	10	1.51	<5	<5	<5	8	2.42	<50
2099667		3.96	0.012	1	0.78	<10	160	<5	<10	1.49	<5	7	6	31	2.22	<50
2099668		3.86	0.006	<1	0.89	<10	410	<5	<10	4.37	<5	8	<5	10	2.21	<50
2099669		3.90	0.007	1	1.01	<10	260	<5	<10	2.44	<5	9	<5	<5	2.61	<50
2099670		3.50	0.004	1	1.20	40	790	<5	<10	3.12	<5	6	<5	<5	2.67	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099631		<5	0.72	<50	0.08	380	26	<0.05	<5	1120	70	2.15	<10	<5	84
2099632		<5	0.70	<50	0.08	250	19	<0.05	<5	1030	60	1.52	<10	<5	70
2099633		<5	0.74	<50	0.10	910	12	<0.05	<5	1100	30	1.56	<10	<5	83
2099634		<5	0.66	<50	0.10	1190	12	<0.05	<5	1030	90	2.09	<10	<5	127
2099635		<5	0.74	<50	0.09	1870	16	<0.05	<5	1090	60	1.64	<10	<5	116
2099636		<5	0.66	<50	0.09	2310	12	<0.05	11	1120	110	1.67	<10	<5	137
2099637		<5	0.73	<50	0.12	2090	5	<0.05	<5	1150	30	0.99	<10	<5	139
2099638		<5	0.66	<50	0.14	2070	8	<0.05	<5	1200	40	1.78	10	<5	199
2099639		<5	0.77	<50	0.15	1240	<5	<0.05	<5	1170	20	0.46	<10	<5	94
2099640		<5	0.71	<50	0.16	1680	<5	<0.05	<5	1140	20	0.96	<10	<5	109
2099641		<5	0.69	<50	0.18	2560	6	<0.05	<5	1100	40	1.56	<10	<5	300
2099642		<5	0.70	<50	0.16	2140	<5	<0.05	<5	1100	10	0.86	<10	<5	152
2099643		<5	0.73	<50	0.13	1470	<5	<0.05	<5	1090	20	1.55	<10	<5	176
2099644		<5	0.64	<50	0.14	1260	<5	<0.05	<5	1000	20	1.16	<10	<5	156
2099645		<5	0.71	<50	0.18	1410	<5	<0.05	<5	1110	40	0.93	<10	<5	142
2099646		<5	0.66	<50	0.18	1490	<5	<0.05	7	1130	50	1.29	<10	<5	175
2099647		<5	0.62	<50	0.21	2290	7	<0.05	<5	1050	150	1.76	<10	<5	233
2099648		<5	0.68	<50	0.28	2490	<5	<0.05	<5	1130	40	1.04	<10	<5	257
2099649		<5	0.61	<50	0.24	1860	<5	<0.05	<5	1120	70	2.33	<10	<5	162
2099650		<5	0.50	<50	0.33	1480	<5	<0.05	39	1120	210	2.42	<10	<5	215
2099651		<5	0.52	<50	0.41	2490	<5	<0.05	<5	1110	230	2.55	<10	<5	218
2099652		<5	0.52	<50	0.59	2310	<5	<0.05	<5	1000	190	2.62	<10	<5	224
2099653		<5	0.55	<50	0.38	1830	<5	<0.05	<5	1110	70	1.98	<10	<5	161
2099654		<5	0.45	<50	0.17	1320	<5	<0.05	<5	860	80	2.63	<10	<5	119
2099655		<5	0.49	<50	0.16	900	<5	<0.05	<5	870	70	3.17	<10	<5	95
2099656		<5	0.49	<50	0.16	910	<5	<0.05	<5	870	60	3.19	10	<5	99
2099657		<5	0.49	<50	0.13	640	<5	<0.05	<5	950	30	2.65	<10	<5	104
2099658		<5	0.17	<50	0.70	430	<5	0.10	22	570	<10	<0.05	<10	6	48
2099659		<5	0.55	<50	0.09	520	6	0.05	13	910	10	3.19	10	<5	71
2099660		<5	0.54	<50	0.09	570	10	<0.05	<5	940	20	3.31	<10	<5	80
2099661		<5	0.61	<50	0.10	230	11	<0.05	<5	920	20	3.00	<10	<5	68
2099662		<5	0.18	<50	0.71	430	<5	0.10	18	560	<10	0.05	<10	6	52
2099663		<5	0.56	<50	0.10	600	<5	<0.05	<5	920	20	3.31	<10	<5	79
2099664		<5	0.57	<50	0.09	680	<5	<0.05	<5	840	10	2.89	<10	<5	74
2099665		<5	0.49	<50	0.09	2440	<5	<0.05	<5	890	30	2.46	<10	<5	142
2099666		<5	0.54	<50	0.10	980	<5	<0.05	<5	890	40	2.58	<10	<5	101
2099667		<5	0.52	<50	0.10	770	<5	<0.05	10	920	50	2.36	10	<5	99
2099668		<5	0.58	<50	0.17	2230	<5	<0.05	<5	840	60	2.30	<10	<5	166
2099669		<5	0.57	<50	0.27	1200	<5	<0.05	<5	870	50	2.70	<10	<5	152
2099670		<5	0.57	<50	0.42	1340	<5	<0.05	<5	920	30	2.65	10	<5	181



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099631		<0.05	<50	<50	10	<50	130
2099632		<0.05	<50	<50	8	<50	100
2099633		<0.05	<50	<50	12	<50	140
2099634		<0.05	<50	<50	11	<50	140
2099635		<0.05	<50	<50	12	<50	130
2099636		<0.05	<50	<50	10	<50	370
2099637		<0.05	<50	<50	12	<50	70
2099638		<0.05	<50	<50	12	<50	50
2099639		<0.05	<50	<50	11	<50	70
2099640		<0.05	<50	<50	15	<50	80
2099641		<0.05	<50	<50	15	<50	160
2099642		<0.05	<50	<50	13	<50	60
2099643		<0.05	<50	<50	12	<50	50
2099644		<0.05	<50	<50	11	<50	40
2099645		<0.05	<50	<50	14	<50	100
2099646		<0.05	<50	<50	12	<50	90
2099647		<0.05	<50	<50	14	<50	330
2099648		<0.05	<50	<50	13	<50	90
2099649		<0.05	<50	<50	12	<50	130
2099650		<0.05	<50	<50	12	<50	330
2099651		<0.05	<50	<50	13	<50	620
2099652		<0.05	<50	<50	12	<50	510
2099653		<0.05	<50	<50	11	<50	300
2099654		<0.05	<50	<50	7	<50	180
2099655		<0.05	<50	<50	6	<50	150
2099656		<0.05	<50	<50	<5	<50	140
2099657		<0.05	<50	<50	5	<50	80
2099658		0.19	<50	<50	71	<50	40
2099659		<0.05	<50	<50	5	<50	10
2099660		<0.05	<50	<50	5	<50	40
2099661		<0.05	<50	<50	7	<50	30
2099662		0.20	<50	<50	69	<50	30
2099663		<0.05	<50	<50	8	<50	50
2099664		<0.05	<50	<50	5	<50	30
2099665		<0.05	<50	<50	5	<50	90
2099666		<0.05	<50	<50	<5	<50	180
2099667		<0.05	<50	<50	<5	<50	110
2099668		<0.05	<50	<50	<5	<50	170
2099669		<0.05	<50	<50	7	<50	160
2099670		<0.05	<50	<50	5	<50	50



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099671		0.08	3.77	2	0.51	700	2870	<5	<10	2.08	<5	9	24	69	2.86	<50
2099672		4.20	0.008	1	1.14	<10	250	<5	<10	1.39	<5	5	<5	5	2.73	<50
2099673		4.16	0.006	<1	1.24	10	780	<5	<10	2.63	<5	6	<5	<5	2.59	<50
2099674		3.50	0.005	1	1.42	<10	200	<5	<10	1.60	<5	8	<5	18	3.01	<50
2099675		4.38	0.006	1	1.87	10	230	<5	<10	3.62	<5	22	13	21	4.51	<50
2099676		3.82	0.005	1	1.76	10	220	<5	<10	3.45	<5	20	14	21	4.33	<50
2099677		4.70	0.005	1	1.81	10	180	<5	<10	2.40	<5	16	5	17	4.11	<50
2099678		4.44	0.004	1	2.01	10	190	<5	10	2.11	<5	16	6	27	4.88	<50
2099679		3.84	0.012	1	1.91	10	210	<5	<10	2.48	<5	18	<5	64	5.26	<50
2099680		3.20	0.012	2	2.13	30	140	<5	<10	5.15	<5	7	<5	49	3.27	<50
2099681		4.58	0.021	1	2.40	10	160	<5	10	3.56	<5	19	9	53	4.88	<50
2099682		4.00	0.028	2	1.94	20	200	<5	<10	2.74	<5	18	5	31	4.87	<50
2099683		3.94	0.023	2	2.08	20	190	<5	10	3.78	<5	18	6	44	4.80	<50
2099684		4.44	0.015	1	2.20	10	150	<5	<10	2.82	<5	21	7	33	4.64	<50
2099685		4.28	0.069	2	2.22	20	130	<5	<10	6.36	<5	18	10	84	3.88	<50
2099686		4.22	0.043	1	2.05	20	170	<5	<10	5.35	<5	15	9	75	4.17	<50
2099687		4.34	0.015	<1	2.81	<10	160	<5	10	2.78	<5	16	11	46	5.13	<50
2099688		3.98	0.011	<1	3.85	<10	110	<5	10	2.49	<5	17	16	112	6.68	<50
2099689		4.60	0.009	<1	3.69	10	120	<5	10	1.93	<5	20	14	133	6.06	<50
2099690		3.32	0.021	1	1.63	10	150	<5	<10	2.42	<5	24	7	19	4.43	<50
2099691		3.08	0.015	1	2.39	<10	110	<5	<10	2.83	<5	21	14	17	6.07	<50
2099692		2.72	0.012	<1	2.95	<10	100	<5	<10	3.17	<5	22	10	30	5.17	<50
2099693		1.86	0.013	1	1.75	<10	160	<5	10	3.80	<5	20	7	24	6.40	<50
2099752		4.64	0.003	<1	2.21	<10	90	<5	10	5.33	<5	6	<5	9	2.77	<50
2099753		5.62	0.001	<1	2.01	<10	90	<5	<10	2.90	<5	7	5	17	2.88	<50
2099754		5.38	0.004	<1	1.98	<10	70	<5	<10	2.80	<5	7	6	18	3.53	<50
2099755		5.90	0.007	<1	1.61	<10	80	<5	<10	3.77	<5	<5	<5	9	2.48	<50
2099756		4.88	0.011	<1	1.49	20	70	<5	<10	2.87	<5	5	<5	5	2.27	<50
2099757		5.02	0.014	<1	1.06	40	<50	<5	<10	1.23	<5	<5	<5	<5	2.63	<50
2099758		2.70	0.009	<1	1.11	40	<50	<5	10	0.82	<5	5	<5	8	2.37	<50
2099759		4.00	0.028	1	1.15	40	50	<5	10	0.51	<5	6	<5	6	2.79	<50
2099760		3.70	0.023	<1	1.03	20	<50	<5	<10	1.60	<5	<5	<5	7	2.47	<50
2099761		4.06	0.031	<1	1.56	30	<50	<5	<10	1.23	<5	<5	<5	7	2.28	<50
2099762		4.36	0.113	1	0.93	10	<50	<5	10	2.04	<5	<5	<5	5	2.07	<50
2099763		6.26	0.026	<1	1.47	30	<50	<5	10	3.47	<5	<5	<5	8	2.26	<50
2099764		6.16	0.070	<1	2.25	<10	50	<5	<10	4.21	<5	<5	<5	14	2.13	<50
2099765		6.34	0.158	<1	1.45	10	60	<5	<10	5.65	<5	<5	<5	5	2.04	<50
2099766		6.44	0.016	<1	1.27	30	50	<5	<10	2.75	<5	<5	<5	7	2.12	<50
2099767		6.48	0.016	<1	1.36	30	60	<5	<10	1.98	<5	<5	<5	8	2.12	<50
2099768		5.62	0.032	<1	1.21	<10	70	<5	10	2.05	<5	<5	<5	6	2.20	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099671		<5	0.31	<50	0.81	310	24	<0.05	72	800	10	1.96	10	<5	38
2099672		<5	0.48	<50	0.48	720	<5	0.05	<5	960	50	2.79	<10	<5	138
2099673		<5	0.49	<50	0.64	1200	<5	0.07	<5	880	50	2.56	<10	<5	196
2099674		<5	0.50	<50	0.63	1060	<5	0.06	<5	1050	40	2.99	<10	<5	156
2099675		<5	0.56	<50	0.98	1970	<5	<0.05	18	1150	30	4.35	<10	<5	216
2099676		<5	0.54	<50	0.94	1880	<5	0.05	19	1100	30	4.16	10	<5	207
2099677		<5	0.55	<50	0.86	1550	<5	0.05	7	1140	40	4.16	<10	<5	174
2099678		<5	0.56	<50	0.79	1420	<5	<0.05	15	1170	50	5.06	<10	<5	141
2099679		<5	0.68	<50	0.77	1230	<5	<0.05	<5	990	30	5.66	10	<5	106
2099680		<5	0.45	<50	1.11	2440	<5	<0.05	<5	880	70	3.10	<10	<5	191
2099681		<5	0.51	<50	1.15	2070	<5	0.05	8	1200	40	4.69	10	5	165
2099682		<5	0.55	<50	0.88	1480	<5	<0.05	8	1080	70	4.93	<10	<5	125
2099683		<5	0.59	<50	0.88	1800	<5	<0.05	10	1170	90	4.89	10	<5	166
2099684		<5	0.43	<50	0.90	1490	<5	<0.05	10	1190	90	4.64	10	<5	146
2099685		<5	0.37	<50	1.20	3000	<5	0.05	8	870	140	3.59	10	5	259
2099686		<5	0.32	<50	1.20	2390	<5	<0.05	14	950	40	3.84	10	5	192
2099687		<5	0.43	<50	1.72	1840	<5	<0.05	11	1000	40	4.69	10	6	146
2099688		<5	0.33	<50	3.18	2140	<5	<0.05	11	1510	50	5.76	10	9	106
2099689		<5	0.36	<50	3.04	1820	<5	<0.05	6	1400	70	5.24	<10	9	86
2099690		<5	0.45	<50	0.79	1300	<5	<0.05	23	880	80	4.44	<10	<5	96
2099691		<5	0.37	<50	1.65	1600	<5	<0.05	22	1260	50	5.88	10	5	118
2099692		<5	0.33	<50	1.80	1480	<5	<0.05	21	1350	30	5.05	<10	<5	155
2099693		<5	0.48	<50	0.90	1520	<5	<0.05	23	1430	50	6.55	<10	<5	141
2099752		<5	0.44	<50	0.73	1940	<5	<0.05	<5	1080	10	<0.05	<10	<5	84
2099753		<5	0.66	<50	0.74	1150	<5	<0.05	<5	1100	<10	<0.05	<10	<5	65
2099754		<5	0.63	<50	0.73	1220	<5	<0.05	<5	1110	<10	0.47	<10	<5	68
2099755		<5	0.46	<50	0.61	1710	<5	<0.05	<5	1010	<10	0.29	10	<5	58
2099756		<5	0.42	<50	0.57	1210	<5	<0.05	<5	1020	<10	0.54	10	<5	66
2099757		<5	0.30	<50	0.46	740	<5	<0.05	<5	950	<10	0.53	10	<5	28
2099758		<5	0.37	<50	0.49	720	<5	<0.05	<5	980	<10	0.51	<10	<5	32
2099759		<5	0.33	<50	0.54	760	<5	<0.05	<5	1190	<10	0.81	10	<5	26
2099760		<5	0.37	<50	0.40	860	<5	<0.05	<5	1000	<10	0.56	<10	<5	29
2099761		<5	0.42	<50	0.47	690	<5	<0.05	<5	970	<10	0.61	10	<5	41
2099762		<5	0.26	<50	0.40	720	<5	<0.05	<5	790	<10	0.57	10	<5	27
2099763		<5	0.55	<50	0.49	1140	<5	<0.05	<5	1030	<10	0.63	10	<5	57
2099764		<5	0.20	<50	0.39	1430	<5	<0.05	5	970	10	0.63	<10	<5	101
2099765		<5	0.27	<50	0.37	2890	<5	<0.05	<5	760	<10	0.63	10	<5	83
2099766		<5	0.48	<50	0.37	1270	<5	<0.05	<5	940	<10	0.52	<10	<5	45
2099767		<5	0.50	<50	0.41	820	<5	<0.05	<5	990	<10	0.63	10	<5	49
2099768		<5	0.48	<50	0.38	790	<5	<0.05	<5	940	<10	0.28	10	<5	40



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099671		<0.05	<50	<50	90	<50	140
2099672		<0.05	<50	<50	7	<50	120
2099673		<0.05	<50	<50	6	<50	190
2099674		<0.05	<50	<50	12	<50	110
2099675		<0.05	<50	<50	35	<50	130
2099676		<0.05	<50	<50	33	<50	130
2099677		<0.05	<50	<50	25	<50	220
2099678		<0.05	<50	<50	28	<50	200
2099679		<0.05	<50	<50	31	<50	60
2099680		<0.05	<50	<50	17	<50	150
2099681		<0.05	<50	<50	42	<50	200
2099682		<0.05	<50	<50	33	<50	420
2099683		<0.05	<50	<50	36	<50	470
2099684		<0.05	<50	<50	34	<50	220
2099685		<0.05	<50	<50	43	<50	330
2099686		<0.05	<50	<50	53	<50	160
2099687		<0.05	<50	<50	56	<50	130
2099688		<0.05	<50	<50	87	<50	250
2099689		<0.05	<50	<50	108	<50	260
2099690		<0.05	<50	<50	37	<50	200
2099691		<0.05	<50	<50	56	<50	90
2099692		<0.05	<50	<50	49	<50	80
2099693		<0.05	<50	<50	35	<50	90
2099752		0.14	<50	<50	54	<50	60
2099753		0.18	<50	<50	53	<50	50
2099754		0.11	<50	<50	50	<50	70
2099755		0.08	<50	<50	37	<50	50
2099756		0.07	<50	<50	34	<50	60
2099757		0.10	<50	<50	38	<50	50
2099758		0.09	<50	<50	29	<50	40
2099759		0.09	<50	<50	34	<50	40
2099760		0.11	<50	<50	30	<50	50
2099761		0.07	<50	<50	27	<50	40
2099762		0.10	<50	<50	28	<50	30
2099763		0.06	<50	<50	24	<50	40
2099764		0.14	<50	<50	30	<50	40
2099765		0.10	<50	<50	25	<50	30
2099766		0.08	<50	<50	25	<50	30
2099767		0.07	<50	<50	26	<50	30
2099768		0.07	<50	<50	31	<50	40



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099769		3.80	0.202	4	0.66	10	<50	<5	10	1.87	<5	<5	<5	<5	2.38	<50
2099770		4.54	0.152	1	0.70	10	<50	<5	<10	1.58	<5	<5	6	<5	2.37	<50
2099771		6.04	0.061	<1	1.58	20	<50	<5	10	2.32	<5	7	<5	6	2.59	<50
2099772		6.90	0.004	<1	1.77	30	70	<5	<10	2.57	<5	<5	<5	6	2.57	<50
2099773		5.24	0.014	<1	1.96	20	60	<5	<10	2.27	<5	7	<5	8	2.62	<50
2099774		5.02	0.017	<1	1.82	20	<50	<5	<10	2.44	<5	5	<5	8	2.66	<50
2099775		6.62	0.009	<1	1.68	20	50	<5	<10	2.68	<5	<5	<5	6	2.42	<50
2099776		6.92	0.009	<1	1.77	10	<50	<5	<10	1.42	<5	5	<5	9	2.59	<50
2099777		4.62	0.007	<1	1.73	<10	<50	<5	<10	0.94	<5	6	<5	10	2.62	<50
2099778		5.10	0.007	<1	1.04	20	<50	<5	<10	0.55	<5	7	<5	8	2.78	<50
2099779		3.70	0.009	<1	0.88	10	<50	<5	<10	0.47	<5	5	<5	6	2.82	<50
2099780		2.86	0.033	1	0.70	20	<50	<5	<10	0.46	<5	<5	5	19	2.64	<50
2099781		5.54	0.103	1	0.66	10	<50	<5	<10	0.41	<5	5	6	15	2.58	<50
2099782		3.08	0.031	1	0.55	<10	<50	<5	<10	0.36	<5	5	5	15	2.49	<50
2099783		4.56	0.046	1	0.58	10	<50	<5	<10	0.51	<5	5	6	9	2.57	<50
2099784		4.36	0.549	6	0.57	40	<50	<5	<10	0.43	<5	5	7	<5	2.07	<50
2099785		6.96	0.666	3	0.64	50	<50	<5	<10	0.46	<5	<5	8	6	2.14	<50
2099786		4.08	1.140	3	0.76	110	<50	<5	10	0.75	<5	5	7	6	2.05	<50
2099787		3.30	1.075	4	0.70	30	<50	<5	10	2.50	<5	<5	<5	6	2.07	<50
2099788		4.12	2.82	6	0.29	<10	<50	<5	<10	11.60	<5	<5	<5	<5	0.91	<50
2099789		0.08	0.872	<1	1.63	<10	100	<5	<10	1.07	<5	9	32	29	2.66	<50
2099790		5.28	0.454	2	0.57	20	<50	<5	<10	6.30	<5	<5	<5	<5	1.38	<50
2099791		5.48	0.188	2	1.02	60	<50	<5	<10	0.63	<5	7	<5	9	2.71	<50
2099792		<0.02	0.104	1	0.88	20	<50	<5	10	0.55	<5	<5	<5	7	2.69	<50
2099793		7.02	0.101	1	0.89	20	<50	<5	<10	0.55	<5	6	<5	6	2.71	<50
2099794		6.46	0.211	1	0.90	<10	<50	<5	<10	1.25	<5	6	<5	9	2.67	<50
2099795		6.96	0.197	1	0.78	<10	<50	<5	<10	1.80	<5	<5	<5	8	2.67	<50
2099796		8.06	0.021	<1	0.78	<10	<50	<5	<10	1.42	<5	5	<5	7	2.63	<50
2099797		7.40	0.094	<1	0.78	<10	<50	<5	<10	1.90	<5	<5	<5	9	2.69	<50
2099798		5.02	0.393	1	0.77	10	<50	<5	<10	1.20	<5	5	<5	10	2.71	<50
2099799		6.58	0.123	<1	0.68	10	<50	<5	10	1.37	<5	<5	6	10	2.75	<50
2099800		5.86	0.185	<1	0.60	20	<50	<5	<10	3.06	<5	<5	<5	7	2.52	<50
2099801		2.70	0.108	1	0.70	<10	<50	<5	<10	1.48	<5	5	5	8	2.71	<50
2099802		7.12	0.282	1	0.84	10	<50	<5	<10	0.74	<5	7	<5	11	2.84	<50
2099803		4.40	0.191	4	0.77	10	<50	<5	<10	0.96	<5	6	16	39	2.70	<50
2099804		1.48	0.539	6	0.66	<10	<50	<5	<10	3.29	<5	<5	<5	14	2.32	<50
2099805		5.26	0.023	1	1.65	20	60	<5	<10	0.29	<5	12	<5	15	3.18	<50
2099806		6.30	0.009	1	1.68	10	60	<5	10	1.18	<5	12	11	23	3.83	<50
2099807		2.92	0.065	1	1.52	10	50	<5	<10	1.28	<5	10	7	23	3.71	<50
2099808		7.36	0.299	3	0.59	30	<50	<5	<10	5.24	<5	<5	<5	15	2.65	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099769		<5	0.22	<50	0.39	740	<5	<0.05	<5	810	10	0.45	<10	<5	16
2099770		<5	0.20	<50	0.42	740	<5	<0.05	<5	810	<10	0.49	10	5	19
2099771		<5	0.38	<50	0.74	940	<5	<0.05	<5	940	10	0.63	<10	<5	47
2099772		<5	0.50	<50	0.73	1430	<5	<0.05	<5	990	<10	0.53	10	<5	53
2099773		<5	0.49	<50	0.81	1180	<5	<0.05	<5	960	10	0.76	<10	<5	57
2099774		<5	0.45	<50	0.79	1250	<5	<0.05	<5	1080	<10	1.01	10	<5	71
2099775		<5	0.46	<50	0.68	1300	<5	<0.05	<5	990	10	0.57	<10	<5	58
2099776		<5	0.41	<50	0.77	1140	<5	<0.05	<5	1040	<10	0.73	<10	<5	50
2099777		<5	0.40	<50	0.75	1020	<5	<0.05	<5	1090	10	0.46	<10	<5	47
2099778		<5	0.23	<50	0.59	670	<5	<0.05	<5	1070	10	0.43	<10	<5	25
2099779		<5	0.18	<50	0.58	630	<5	<0.05	<5	980	<10	0.39	<10	<5	20
2099780		<5	0.19	<50	0.40	530	<5	<0.05	<5	940	10	0.24	10	5	17
2099781		<5	0.20	<50	0.41	530	<5	<0.05	<5	960	<10	0.23	<10	5	17
2099782		<5	0.23	<50	0.38	500	<5	<0.05	<5	890	<10	0.27	10	<5	15
2099783		<5	0.22	<50	0.41	560	<5	<0.05	<5	890	<10	0.37	<10	<5	14
2099784		<5	0.22	<50	0.42	550	<5	<0.05	<5	740	<10	1.40	<10	<5	11
2099785		<5	0.23	<50	0.36	660	<5	<0.05	<5	1090	<10	1.18	<10	<5	11
2099786		<5	0.22	<50	0.47	770	<5	<0.05	<5	690	<10	3.88	<10	<5	15
2099787		<5	0.16	<50	0.47	950	<5	<0.05	<5	670	<10	0.79	10	<5	31
2099788		<5	0.10	<50	0.17	1720	<5	<0.05	<5	270	<10	0.50	<10	<5	250
2099789		<5	0.16	<50	0.72	420	<5	0.09	27	540	<10	0.10	20	5	42
2099790		<5	0.20	<50	0.20	940	<5	<0.05	<5	430	<10	0.93	<10	<5	74
2099791		<5	0.23	<50	0.62	750	<5	<0.05	<5	930	10	1.55	<10	<5	19
2099792		<5	0.26	<50	0.39	780	<5	0.05	<5	950	<10	1.55	<10	5	11
2099793		<5	0.26	<50	0.39	780	<5	<0.05	<5	950	<10	1.58	<10	5	16
2099794		<5	0.31	<50	0.30	1010	<5	<0.05	<5	960	10	1.26	<10	5	18
2099795		<5	0.26	<50	0.24	970	<5	0.05	<5	920	<10	0.78	<10	6	24
2099796		<5	0.26	<50	0.23	800	<5	<0.05	<5	920	<10	0.37	<10	5	25
2099797		<5	0.24	<50	0.22	870	<5	0.05	<5	920	<10	0.62	<10	5	30
2099798		<5	0.26	<50	0.23	790	<5	0.05	<5	930	10	1.15	10	5	24
2099799		<5	0.19	<50	0.22	920	<5	0.07	<5	910	<10	1.07	10	5	20
2099800		<5	0.16	<50	0.22	1970	<5	0.05	<5	880	<10	1.11	10	5	22
2099801		<5	0.20	<50	0.34	1220	<5	0.05	<5	990	<10	0.96	10	5	18
2099802		<5	0.20	<50	0.40	1080	<5	0.05	<5	1020	10	1.13	10	5	18
2099803		<5	0.20	<50	0.47	1170	<5	<0.05	13	870	50	0.87	<10	5	17
2099804		<5	0.10	<50	0.29	1970	<5	0.05	<5	770	10	0.82	<10	5	28
2099805		<5	0.58	<50	0.58	740	<5	<0.05	<5	80	10	1.37	<10	5	21
2099806		<5	0.55	<50	0.50	750	<5	<0.05	<5	910	10	0.83	<10	7	44
2099807		<5	0.45	<50	0.51	810	<5	0.05	<5	670	<10	1.46	10	7	40
2099808		<5	0.25	<50	0.19	840	<5	<0.05	<5	270	<10	2.28	10	5	91



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099769		0.13	<50	<50	33	<50	50
2099770		0.15	<50	<50	39	<50	30
2099771		0.07	<50	<50	32	<50	50
2099772		0.07	<50	<50	24	<50	50
2099773		<0.05	<50	<50	26	<50	50
2099774		<0.05	<50	<50	31	<50	50
2099775		0.06	<50	<50	31	<50	50
2099776		0.07	<50	<50	32	<50	50
2099777		0.08	<50	<50	49	<50	50
2099778		0.15	<50	<50	43	<50	50
2099779		0.17	<50	<50	46	<50	50
2099780		0.14	<50	<50	46	<50	60
2099781		0.14	<50	<50	44	<50	50
2099782		0.14	<50	<50	35	<50	40
2099783		0.14	<50	<50	29	<50	40
2099784		0.15	<50	<50	28	<50	30
2099785		0.15	<50	<50	36	<50	40
2099786		0.11	<50	<50	37	<50	40
2099787		0.12	<50	<50	41	<50	30
2099788		0.07	<50	<50	16	<50	20
2099789		0.19	<50	<50	68	<50	50
2099790		0.08	<50	<50	25	<50	20
2099791		0.12	<50	<50	41	<50	50
2099792		0.15	<50	<50	36	<50	40
2099793		0.15	<50	<50	37	<50	40
2099794		0.17	<50	<50	46	<50	50
2099795		0.17	<50	<50	49	<50	50
2099796		0.17	<50	<50	47	<50	40
2099797		0.16	<50	<50	44	<50	40
2099798		0.15	<50	<50	43	<50	50
2099799		0.14	<50	<50	44	<50	40
2099800		0.10	<50	<50	39	<50	40
2099801		0.11	<50	<50	39	<50	50
2099802		0.11	<50	<50	40	<50	50
2099803		0.16	<50	<50	46	<50	90
2099804		0.15	<50	<50	48	<50	50
2099805		<0.05	<50	<50	22	<50	40
2099806		0.17	<50	<50	87	<50	60
2099807		0.15	<50	<50	72	<50	50
2099808		0.10	<50	<50	25	<50	30



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099809		3.10	0.017	1	1.30	10	80	<5	<10	1.94	<5	8	7	22	3.30	<50
2099810		0.08	4.03	2	0.49	680	2690	<5	10	2.08	<5	6	22	66	2.80	<50
2099811		5.64	0.021	1	1.53	10	100	<5	10	0.74	<5	9	<5	24	3.19	<50
2099812		6.26	0.023	<1	1.70	<10	100	<5	10	1.71	<5	9	6	26	3.25	<50
2099813		0.08	0.002	<1	1.67	<10	110	<5	10	1.11	<5	5	29	16	2.39	<50
2099814		5.24	0.008	<1	1.64	<10	100	<5	10	0.83	<5	15	6	30	3.32	<50
2099815		6.10	0.008	<1	2.05	<10	100	<5	<10	3.42	<5	14	21	36	3.85	<50
2099816		6.48	0.006	1	2.00	<10	80	<5	<10	3.48	<5	14	21	40	4.00	<50
2099817		5.48	0.007	1	1.82	10	60	<5	<10	4.26	<5	15	21	30	4.00	<50
2099818		5.92	0.011	<1	1.64	20	70	<5	<10	3.21	<5	13	13	24	3.65	<50
2099819		6.20	0.020	<1	1.59	<10	70	<5	<10	3.21	<5	14	14	28	3.86	<50
2099820		5.20	0.033	<1	2.01	10	70	<5	<10	2.07	<5	17	19	31	4.14	<50
2099821		6.62	0.006	<1	1.84	<10	70	<5	<10	2.23	<5	13	11	35	3.56	<50
2099822		5.76	0.056	1	1.76	<10	60	<5	<10	1.50	<5	15	6	28	3.58	<50
2099823		5.16	0.005	<1	1.65	<10	50	<5	<10	1.42	<5	11	8	22	3.71	<50
2099824		6.50	0.019	<1	1.53	<10	50	<5	<10	2.65	<5	14	12	30	3.88	<50
2099825		4.98	0.061	1	1.49	<10	60	<5	<10	2.89	<5	13	<5	25	3.80	<50
2099826		4.92	0.016	1	1.84	10	60	<5	<10	1.82	<5	11	5	27	3.59	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5
2099809		<5	0.48	<50	0.33	530	<5	<0.05	<5	540	<10	2.09	10	6	53
2099810		6	0.29	<50	0.81	290	20	<0.05	67	780	20	1.99	10	<5	31
2099811		<5	0.56	<50	0.40	450	<5	<0.05	<5	250	<10	2.12	10	6	30
2099812		<5	0.60	<50	0.40	500	<5	<0.05	<5	220	10	1.82	<10	6	49
2099813		<5	0.17	<50	0.72	420	<5	0.09	14	540	<10	0.09	<10	6	43
2099814		<5	0.62	<50	0.46	520	<5	<0.05	6	580	<10	2.11	<10	5	28
2099815		<5	0.57	<50	0.73	1660	<5	<0.05	17	890	<10	0.95	10	7	52
2099816		<5	0.55	<50	0.76	1620	<5	0.10	15	960	<10	0.74	10	8	52
2099817		<5	0.54	<50	0.77	1640	<5	0.10	7	1070	<10	1.09	<10	9	53
2099818		<5	0.54	<50	0.65	1300	<5	0.11	6	780	<10	1.15	<10	8	46
2099819		<5	0.41	<50	0.67	1270	<5	0.10	8	670	<10	1.83	<10	8	49
2099820		<5	0.50	<50	0.89	1320	<5	0.12	11	910	10	1.57	10	8	43
2099821		<5	0.47	<50	0.78	1110	<5	0.11	13	560	<10	1.08	10	7	42
2099822		<5	0.51	<50	0.77	670	<5	0.13	8	360	<10	1.68	<10	6	35
2099823		<5	0.48	<50	0.70	700	<5	0.12	6	460	<10	1.09	<10	6	40
2099824		<5	0.46	<50	0.55	830	<5	0.14	7	700	<10	1.08	<10	8	49
2099825		<5	0.53	<50	0.39	500	<5	0.12	<5	240	<10	2.31	<10	5	66
2099826		<5	0.56	<50	0.46	650	<5	0.14	5	600	<10	1.53	<10	5	49



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099809		0.18	<50	<50	45	<50	60
2099810		<0.05	<50	<50	88	<50	140
2099811		0.12	<50	<50	30	<50	50
2099812		0.10	<50	<50	34	<50	50
2099813		0.20	<50	<50	67	<50	40
2099814		0.17	<50	<50	34	<50	40
2099815		0.25	<50	<50	73	<50	60
2099816		0.29	<50	<50	84	<50	60
2099817		0.28	<50	<50	79	<50	50
2099818		0.24	<50	<50	64	<50	40
2099819		0.24	<50	<50	68	<50	50
2099820		0.23	<50	<50	69	<50	50
2099821		0.22	<50	<50	53	<50	40
2099822		0.18	<50	<50	31	<50	50
2099823		0.21	<50	<50	50	<50	40
2099824		0.25	<50	<50	79	<50	50
2099825		0.17	<50	<50	26	<50	40
2099826		0.16	<50	<50	38	<50	60



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P.O. No.:

This report is for 218 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 13- FEB- 2013.

The following have access to data associated with this certificate:

JIM CUTTLE

MICHAEL FRYE

RYAN SHARP

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
BAG- 01	Bulk Master for Storage
SPL- 34	Pulp Splitting Charge
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
LOG- 22d	Sample login - Rcd w/o BarCode dup

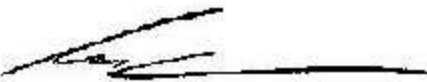
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41a	High Grade Aqua Regia ICP- AES	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: VENERABLE VENTURES LTD
ATTN: JIM CUTTLE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099403		4.04	0.008	1	1.59	10	220	<5	<10	3.14	<5	8	9	17	2.65	<50
2099404		4.30	0.007	1	1.80	10	280	<5	<10	3.67	<5	10	5	19	2.61	<50
2099405		0.08	0.827	1	1.77	<10	120	<5	<10	1.12	<5	7	37	26	2.82	<50
2099406		4.10	0.008	<1	1.60	<10	150	<5	<10	2.21	<5	11	<5	<5	2.73	<50
2099407		4.22	0.008	1	1.75	<10	160	<5	<10	2.43	<5	9	<5	<5	3.27	<50
2099408		3.60	0.011	1	1.32	10	110	<5	<10	3.10	<5	7	<5	<5	2.87	<50
2099409		3.76	0.010	1	1.60	10	130	<5	<10	2.27	<5	8	<5	6	2.47	<50
2099410		3.50	0.004	<1	1.37	<10	120	<5	<10	2.25	<5	9	<5	27	2.29	<50
2099411		4.06	0.005	<1	1.81	<10	140	<5	<10	3.90	<5	5	<5	<5	2.37	<50
2099412		3.22	0.009	1	1.52	<10	140	<5	<10	9.74	<5	7	<5	<5	2.35	<50
2099413		3.42	0.010	<1	1.47	<10	230	<5	<10	4.19	<5	11	<5	<5	3.32	<50
2099414		3.80	0.012	1	1.49	<10	200	<5	<10	4.18	<5	17	6	36	4.31	<50
2099415		3.70	0.015	1	2.59	10	210	<5	<10	4.64	<5	29	28	94	5.31	<50
2099416		4.06	0.012	1	2.87	10	210	<5	10	3.75	<5	25	36	78	5.14	<50
2099417		4.22	0.005	<1	3.29	<10	550	<5	<10	4.58	<5	22	35	58	5.01	<50
2099418		4.00	0.009	1	1.80	<10	150	<5	<10	3.02	<5	16	10	39	4.00	<50
2099419		3.82	0.005	<1	1.67	10	190	<5	<10	2.35	<5	8	<5	13	2.72	<50
2099420		0.08	0.003	<1	1.68	<10	110	<5	10	1.05	<5	10	31	25	2.42	<50
2099421		3.76	0.008	1	1.48	<10	200	<5	<10	2.72	7	10	<5	7	2.84	<50
2099422		3.30	0.006	<1	1.43	10	220	<5	<10	1.56	<5	9	<5	<5	2.17	<50
2099423		0.08	3.92	1	0.52	690	2770	<5	<10	2.09	<5	8	25	68	2.86	<50
2099424		3.74	0.010	1	1.39	10	200	<5	<10	3.08	<5	13	6	21	2.62	<50
2099425		4.06	0.006	1	1.06	<10	170	<5	<10	4.91	<5	15	<5	<5	2.08	<50
2099426		4.20	0.006	1	1.48	20	200	<5	<10	2.30	<5	10	<5	<5	2.25	<50
2099427		3.56	0.002	<1	1.97	10	330	<5	<10	1.46	<5	7	<5	<5	2.52	<50
2099428		4.20	0.006	<1	1.82	<10	300	<5	<10	1.64	<5	5	<5	<5	3.27	<50
2099429		3.26	0.009	<1	1.86	20	370	<5	<10	1.98	<5	7	<5	18	3.18	<50
2099430		3.66	0.008	<1	1.71	<10	260	<5	10	3.12	<5	7	<5	27	3.69	<50
2099431		4.14	0.009	<1	2.00	<10	240	<5	<10	2.59	<5	<5	<5	20	3.90	<50
2099432		4.02	0.007	<1	1.81	10	270	<5	<10	2.95	<5	<5	<5	15	3.67	<50
2099433		4.44	0.007	<1	1.69	10	240	<5	<10	2.26	<5	<5	<5	8	3.33	<50
2099434		3.50	0.005	<1	1.60	<10	200	<5	<10	2.85	<5	6	<5	<5	3.54	<50
2099435		3.58	0.003	<1	1.61	<10	180	<5	<10	3.71	<5	<5	<5	5	2.82	<50
2099436		3.54	0.004	<1	1.47	<10	200	<5	<10	3.35	<5	<5	<5	21	3.02	<50
2099437		3.80	0.002	<1	1.53	20	720	<5	10	2.17	<5	<5	<5	18	3.03	<50
2099438		3.84	0.002	<1	1.68	10	220	<5	<10	2.11	<5	<5	<5	29	2.89	<50
2099439		4.22	0.003	<1	1.55	<10	160	<5	10	2.72	<5	7	<5	14	3.38	<50
2099440		3.82	0.006	1	1.52	<10	150	<5	10	2.54	<5	9	<5	<5	3.42	<50
2099441		3.98	0.005	<1	1.70	<10	160	<5	<10	2.42	<5	5	<5	34	3.26	<50
2099442		4.00	0.022	5	1.30	<10	150	<5	<10	3.27	31	<5	<5	<5	1.40	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099403		<5	0.76	<50	0.70	1560	<5	<0.05	<5	1260	20	1.99	<10	<5	216
2099404		<5	0.92	<50	0.82	1890	<5	<0.05	7	1230	30	1.98	<10	<5	239
2099405		<5	0.18	<50	0.74	460	<5	0.11	21	580	<10	0.06	<10	6	51
2099406		<5	0.84	<50	0.63	1240	<5	<0.05	<5	1300	20	2.39	<10	<5	139
2099407		<5	0.97	<50	0.79	1230	<5	<0.05	<5	1360	30	3.06	10	<5	138
2099408		<5	0.74	<50	0.48	1310	<5	<0.05	<5	1360	30	2.70	<10	<5	125
2099409		<5	0.90	<50	0.50	1030	<5	<0.05	<5	1270	30	2.21	10	<5	124
2099410		<5	0.73	<50	0.93	1150	<5	<0.05	29	1490	50	1.71	<10	<5	180
2099411		<5	0.91	<50	0.79	1470	<5	<0.05	<5	1360	20	1.60	<10	<5	179
2099412		<5	0.79	<50	0.73	3940	<5	<0.05	<5	1190	60	1.60	<10	<5	336
2099413		<5	0.73	<50	0.66	1790	<5	<0.05	<5	1360	80	3.07	<10	<5	207
2099414		<5	0.66	<50	0.73	1750	<5	<0.05	<5	1300	40	3.94	<10	<5	240
2099415		<5	0.79	<50	1.51	2670	<5	0.05	22	1280	10	3.94	10	10	214
2099416		<5	0.55	<50	1.98	2570	<5	0.08	26	1320	<10	3.32	<10	9	205
2099417		<5	0.63	<50	2.44	3540	<5	0.05	16	1260	<10	1.91	10	10	231
2099418		<5	0.60	<50	0.86	1620	<5	0.06	5	1320	<10	2.75	<10	5	186
2099419		<5	0.72	<50	0.67	1060	<5	<0.05	<5	1380	30	2.12	<10	<5	154
2099420		<5	0.18	<50	0.71	440	<5	0.12	28	590	<10	<0.05	<10	6	48
2099421		<5	0.67	<50	0.53	1140	<5	0.05	<5	1200	100	2.55	<10	<5	93
2099422		<5	0.67	<50	0.46	620	<5	<0.05	<5	1420	60	2.06	<10	<5	70
2099423		<5	0.31	<50	0.81	310	23	<0.05	68	810	10	1.96	10	<5	39
2099424		<5	0.56	<50	0.51	1010	<5	<0.05	5	1340	60	3.08	<10	<5	105
2099425		<5	0.59	<50	0.22	1180	<5	<0.05	<5	1110	30	2.08	<10	<5	129
2099426		<5	0.67	<50	0.52	940	<5	<0.05	<5	1290	30	1.90	<10	<5	95
2099427		<5	0.83	<50	0.68	980	<5	<0.05	<5	1300	<10	1.29	<10	<5	85
2099428		<5	0.73	<50	0.69	1020	<5	<0.05	<5	1220	<10	2.27	<10	<5	83
2099429		<5	0.81	<50	0.65	1130	<5	<0.05	<5	1240	10	2.41	<10	<5	83
2099430		<5	0.71	<50	0.62	1510	<5	<0.05	<5	1340	40	3.02	<10	<5	111
2099431		<5	0.80	<50	0.81	1110	<5	<0.05	<5	1380	30	3.58	<10	<5	110
2099432		<5	0.74	<50	0.73	1240	<5	<0.05	<5	1350	10	3.35	<10	<5	114
2099433		<5	0.66	<50	0.71	1050	<5	<0.05	<5	1360	10	2.80	<10	<5	111
2099434		<5	0.64	<50	0.89	1200	<5	<0.05	<5	1340	20	3.15	<10	<5	146
2099435		<5	0.81	<50	0.56	1560	<5	<0.05	<5	1420	20	2.07	<10	<5	125
2099436		<5	0.67	<50	0.51	1510	<5	<0.05	<5	1380	10	1.89	<10	<5	118
2099437		<5	0.61	<50	0.54	1140	<5	<0.05	<5	1280	10	1.44	<10	<5	98
2099438		<5	0.57	<50	0.62	1200	<5	0.05	<5	1310	10	1.14	<10	5	93
2099439		<5	0.67	<50	0.71	1250	<5	<0.05	<5	1320	30	2.48	<10	<5	147
2099440		<5	0.64	<50	0.76	1240	<5	<0.05	<5	1290	50	2.62	<10	<5	149
2099441		<5	0.75	<50	0.64	1270	<5	<0.05	<5	1300	60	1.88	<10	<5	116
2099442		<5	0.68	<50	0.48	1100	<5	<0.05	<5	1150	1480	0.88	<10	<5	139



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099403		<0.05	<50	<50	30	<50	200
2099404		<0.05	<50	<50	32	<50	190
2099405		0.20	<50	<50	74	<50	50
2099406		<0.05	<50	<50	22	<50	100
2099407		<0.05	<50	<50	19	<50	100
2099408		<0.05	<50	<50	15	<50	160
2099409		<0.05	<50	<50	18	<50	150
2099410		<0.05	<50	<50	19	<50	100
2099411		<0.05	<50	<50	24	<50	240
2099412		<0.05	<50	<50	18	<50	210
2099413		<0.05	<50	<50	20	<50	270
2099414		<0.05	<50	<50	27	<50	150
2099415		<0.05	<50	<50	76	<50	460
2099416		<0.05	<50	<50	96	<50	130
2099417		<0.05	<50	<50	107	<50	160
2099418		<0.05	<50	<50	40	<50	180
2099419		<0.05	<50	<50	25	<50	160
2099420		0.19	<50	<50	67	<50	40
2099421		<0.05	<50	<50	19	<50	680
2099422		<0.05	<50	<50	18	<50	160
2099423		<0.05	<50	<50	90	<50	140
2099424		<0.05	<50	<50	24	<50	270
2099425		<0.05	<50	<50	14	<50	50
2099426		<0.05	<50	<50	15	<50	100
2099427		<0.05	<50	<50	24	<50	50
2099428		<0.05	<50	<50	23	<50	50
2099429		<0.05	<50	<50	23	<50	60
2099430		<0.05	<50	<50	23	<50	80
2099431		<0.05	<50	<50	20	<50	70
2099432		<0.05	<50	<50	20	<50	60
2099433		<0.05	<50	<50	23	<50	60
2099434		<0.05	<50	<50	20	<50	60
2099435		<0.05	<50	<50	22	<50	80
2099436		<0.05	<50	<50	23	<50	80
2099437		<0.05	<50	<50	27	<50	90
2099438		<0.05	<50	<50	30	<50	120
2099439		<0.05	<50	<50	26	<50	110
2099440		<0.05	<50	<50	23	<50	140
2099441		<0.05	<50	<50	19	<50	160
2099442		<0.05	<50	<50	19	<50	2500



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099443		4.02	0.099	5	1.45	<10	160	<5	<10	3.62	6	13	9	98	5.01	<50
2099444		3.48	0.007	1	1.55	<10	170	<5	10	3.26	<5	9	<5	<5	3.36	<50
2099445		4.02	0.009	2	1.72	<10	230	<5	20	2.23	<5	9	<5	5	3.78	<50
2099446		4.08	0.003	<1	1.63	<10	370	<5	<10	2.72	<5	6	<5	<5	2.62	<50
2099512		3.04	0.002	<1	2.52	10	380	<5	10	2.31	<5	9	21	33	3.36	<50
2099513		3.40	0.003	<1	1.75	20	300	<5	10	2.42	<5	7	12	16	2.94	<50
2099514		4.08	0.005	<1	0.85	40	190	<5	10	2.68	<5	7	<5	<5	2.76	<50
2099515		3.98	0.004	1	0.78	30	120	<5	<10	2.86	<5	<5	<5	<5	2.48	<50
2099516		4.02	0.009	<1	0.75	40	120	<5	10	3.28	<5	5	<5	<5	2.96	<50
2099517		3.80	0.006	<1	1.10	50	130	<5	10	2.68	<5	7	<5	<5	3.21	<50
2099518		4.12	0.003	<1	1.50	10	150	<5	<10	2.57	<5	5	<5	<5	3.12	<50
2099519		3.20	0.002	<1	1.55	10	180	<5	<10	1.01	<5	<5	<5	<5	2.68	<50
2099520		3.40	0.002	<1	1.43	20	150	<5	<10	1.44	<5	<5	<5	12	2.78	<50
2099521		2.14	0.003	<1	1.59	20	200	<5	<10	1.71	<5	<5	<5	<5	2.75	<50
2099522		3.40	0.005	1	1.24	60	170	<5	10	0.81	<5	6	<5	5	2.36	<50
2099523		3.96	0.007	1	1.00	80	130	<5	<10	0.50	<5	6	<5	<5	3.19	<50
2099524		3.96	0.008	<1	1.07	80	130	<5	10	0.97	<5	5	<5	5	3.59	<50
2099525		2.90	0.015	4	1.03	30	120	<5	20	1.93	<5	9	12	11	2.59	<50
2099526		2.90	0.015	5	1.00	40	120	<5	10	1.32	<5	13	17	43	2.90	<50
2099527		3.50	0.010	3	0.87	50	100	<5	<10	1.47	8	6	13	24	2.70	<50
2099528		3.84	0.009	2	1.31	30	150	<5	<10	1.13	8	8	16	29	2.92	<50
2099529		3.56	0.007	1	1.68	20	140	<5	10	0.41	<5	15	37	44	3.52	<50
2099530		3.92	0.019	1	0.69	30	70	<5	10	0.59	<5	6	13	18	2.44	<50
2099531		2.34	0.028	3	0.59	50	100	<5	<10	0.16	<5	18	9	47	2.62	<50
2099532		4.22	0.012	1	0.71	20	110	<5	<10	0.31	<5	11	<5	49	2.45	<50
2099533		3.84	0.006	1	1.02	20	140	<5	<10	0.31	<5	7	<5	17	1.74	<50
2099534		4.06	0.003	<1	1.00	30	220	<5	<10	1.27	<5	7	<5	<5	2.51	<50
2099535		1.86	0.006	1	1.40	50	120	<5	<10	0.37	<5	6	<5	20	2.63	<50
2099536		4.26	0.003	1	1.39	30	130	<5	<10	0.98	7	5	<5	39	2.50	<50
2099537		3.42	0.007	1	1.22	70	330	<5	<10	0.42	<5	7	<5	<5	2.40	<50
2099538		4.56	0.002	1	1.33	30	140	<5	<10	1.21	<5	5	<5	6	2.60	<50
2099622		3.18	0.006	1	1.34	50	410	<5	<10	1.32	<5	6	<5	7	2.34	<50
2099623		0.44	0.012	<1	1.68	30	180	<5	<10	2.46	<5	<5	<5	7	2.59	<50
2099624		2.76	0.013	2	1.15	90	600	<5	<10	0.73	<5	11	<5	11	2.49	<50
2099625		3.94	0.002	<1	1.46	30	1390	<5	<10	0.33	<5	7	<5	7	1.86	<50
2099626		3.00	0.014	1	0.87	60	130	<5	<10	0.98	<5	6	<5	20	2.71	<50
2099627		3.00	0.006	1	1.08	20	190	<5	<10	0.81	<5	9	<5	36	2.39	<50
2099628		3.90	0.004	1	1.11	20	190	<5	<10	0.95	<5	9	<5	16	2.10	<50
2099629		3.68	0.012	<1	1.04	50	180	<5	<10	0.77	<5	7	<5	32	2.66	<50
2099630		4.04	0.007	1	1.15	30	370	<5	<10	0.49	<5	6	<5	21	2.10	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099443		<5	0.65	<50	0.64	1410	<5	<0.05	13	1400	260	5.07	<10	<5	133
2099444		<5	0.67	<50	0.64	1290	<5	<0.05	<5	1290	120	2.92	<10	<5	128
2099445		<5	0.87	<50	0.61	1120	<5	<0.05	<5	1160	120	3.25	<10	<5	96
2099446		<5	0.79	<50	0.94	1140	<5	<0.05	<5	1190	60	1.95	<10	<5	140
2099512		<5	0.42	<50	0.45	1060	<5	0.07	12	1090	10	<0.05	<10	5	319
2099513		<5	0.35	<50	0.37	1060	<5	<0.05	<5	870	<10	0.52	<10	<5	257
2099514		<5	0.44	<50	0.07	870	<5	<0.05	<5	1070	20	2.84	<10	<5	143
2099515		<5	0.36	<50	0.10	1240	<5	<0.05	<5	990	20	2.41	<10	<5	140
2099516		<5	0.38	<50	0.09	1530	10	<0.05	<5	1090	20	3.07	<10	<5	139
2099517		<5	0.38	<50	0.24	1460	<5	<0.05	<5	1030	30	2.78	<10	<5	169
2099518		<5	0.46	<50	0.33	1470	<5	<0.05	<5	1000	10	2.01	<10	<5	220
2099519		<5	0.44	<50	0.26	880	<5	0.05	<5	1140	10	0.95	<10	<5	233
2099520		<5	0.39	<50	0.28	1220	<5	0.05	<5	1170	20	0.94	<10	<5	250
2099521		<5	0.49	<50	0.25	1330	<5	0.05	<5	1150	10	1.19	<10	<5	237
2099522		<5	0.48	<50	0.15	650	19	<0.05	<5	1140	10	1.50	<10	<5	149
2099523		<5	0.41	<50	0.18	610	5	<0.05	<5	1100	20	2.78	<10	<5	123
2099524		<5	0.43	<50	0.26	1110	8	<0.05	<5	1210	70	3.09	<10	<5	107
2099525		<5	0.41	<50	0.37	1560	<5	<0.05	21	660	250	1.88	<10	<5	72
2099526		<5	0.38	<50	0.31	1200	<5	<0.05	32	790	100	2.21	<10	<5	53
2099527		<5	0.35	<50	0.31	1470	<5	<0.05	30	710	130	2.34	<10	<5	71
2099528		<5	0.45	<50	0.33	1910	<5	<0.05	30	500	80	1.46	<10	<5	78
2099529		<5	0.33	<50	0.37	1590	<5	<0.05	65	500	60	0.77	<10	<5	54
2099530		<5	0.23	<50	0.17	880	<5	<0.05	29	430	10	1.53	<10	<5	40
2099531		<5	0.33	<50	0.07	140	<5	<0.05	38	590	60	2.57	<10	<5	31
2099532		<5	0.53	<50	0.09	80	12	<0.05	<5	1120	20	2.64	<10	<5	74
2099533		<5	0.65	<50	0.15	190	<5	0.05	<5	1050	40	1.30	<10	<5	93
2099534		<5	0.58	<50	0.28	850	<5	<0.05	<5	1060	20	1.90	<10	<5	165
2099535		<5	0.59	<50	0.36	480	7	0.05	<5	1160	50	1.20	<10	<5	88
2099536		<5	0.70	<50	0.39	740	<5	0.05	<5	1100	160	1.37	<10	<5	103
2099537		<5	0.69	<50	0.33	410	<5	<0.05	<5	1070	50	1.50	<10	<5	72
2099538		<5	0.68	<50	0.42	870	<5	0.06	<5	1090	90	1.13	<10	<5	115
2099622		<5	0.65	<50	0.26	1780	<5	0.06	<5	1290	40	0.54	<10	<5	156
2099623		<5	0.79	<50	0.37	2830	<5	0.05	<5	1120	30	0.73	<10	<5	161
2099624		<5	0.66	<50	0.14	1490	<5	<0.05	<5	1080	70	1.48	<10	<5	98
2099625		<5	0.85	<50	0.13	880	<5	0.05	<5	1150	10	0.31	<10	<5	96
2099626		<5	0.53	<50	0.13	1550	30	0.05	<5	1040	130	2.31	<10	<5	142
2099627		<5	0.66	<50	0.12	980	8	0.06	<5	1130	110	1.96	<10	<5	159
2099628		<5	0.63	<50	0.15	1030	11	0.06	<5	1130	40	1.36	<10	<5	210
2099629		<5	0.63	<50	0.12	1130	38	0.05	<5	1040	80	2.09	<10	<5	159
2099630		<5	0.64	<50	0.12	850	11	0.07	<5	1170	70	1.14	10	<5	103



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099443		<0.05	<50	<50	40	<50	510
2099444		<0.05	<50	<50	24	<50	290
2099445		<0.05	<50	<50	19	<50	400
2099446		<0.05	<50	<50	20	<50	140
2099512		<0.05	<50	<50	44	<50	60
2099513		<0.05	<50	<50	23	<50	60
2099514		<0.05	<50	<50	5	<50	40
2099515		<0.05	<50	<50	5	<50	50
2099516		<0.05	<50	<50	5	<50	40
2099517		<0.05	<50	<50	6	<50	80
2099518		<0.05	<50	<50	9	<50	50
2099519		<0.05	<50	<50	11	<50	70
2099520		<0.05	<50	<50	14	<50	70
2099521		<0.05	<50	<50	14	<50	50
2099522		<0.05	<50	<50	9	<50	60
2099523		<0.05	<50	<50	6	<50	70
2099524		<0.05	<50	<50	9	<50	250
2099525		<0.05	<50	<50	17	<50	430
2099526		<0.05	<50	<50	20	<50	150
2099527		<0.05	<50	<50	13	<50	1100
2099528		<0.05	<50	<50	22	<50	1130
2099529		<0.05	<50	<50	37	<50	340
2099530		<0.05	<50	<50	13	<50	140
2099531		<0.05	<50	<50	10	<50	120
2099532		<0.05	<50	<50	7	<50	90
2099533		<0.05	<50	<50	9	<50	320
2099534		<0.05	<50	<50	9	<50	90
2099535		<0.05	<50	<50	15	<50	330
2099536		<0.05	<50	<50	14	<50	580
2099537		<0.05	<50	<50	14	<50	100
2099538		<0.05	<50	<50	14	<50	290
2099622		<0.05	<50	<50	15	<50	100
2099623		<0.05	<50	<50	15	<50	90
2099624		<0.05	<50	<50	8	<50	190
2099625		<0.05	<50	<50	11	<50	50
2099626		<0.05	<50	<50	9	<50	250
2099627		<0.05	<50	<50	11	<50	250
2099628		<0.05	<50	<50	11	<50	80
2099629		<0.05	<50	<50	9	<50	240
2099630		<0.05	<50	<50	10	<50	160



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099631		3.92	0.011	1	0.99	20	450	<5	<10	0.34	<5	8	<5	17	2.35	<50
2099632		3.40	0.016	<1	0.97	50	90	<5	<10	0.29	<5	6	<5	21	1.89	<50
2099633		3.72	0.012	<1	1.17	80	110	<5	<10	0.44	<5	9	<5	25	2.54	<50
2099634		4.00	0.016	1	0.95	110	90	<5	<10	0.81	<5	7	<5	20	2.74	<50
2099635		3.60	0.011	1	1.10	50	100	<5	<10	1.34	<5	10	<5	26	2.30	<50
2099636		3.66	0.013	1	0.94	50	90	<5	<10	1.89	<5	9	<5	49	2.22	<50
2099637		3.56	0.010	1	1.16	40	90	<5	<10	1.46	<5	6	<5	23	1.91	<50
2099638		3.24	0.016	<1	0.99	90	120	<5	<10	1.37	<5	8	<5	24	2.79	<50
2099639		3.50	0.007	<1	1.34	30	90	<5	<10	0.72	<5	8	<5	9	1.91	<50
2099640		3.70	0.008	1	1.29	20	90	<5	<10	1.00	<5	8	<5	18	2.54	<50
2099641		4.00	0.013	<1	1.15	40	90	<5	<10	1.71	<5	6	<5	14	2.89	<50
2099642		3.92	0.009	<1	1.16	40	90	<5	<10	1.17	<5	12	<5	16	2.35	<50
2099643		3.92	0.009	<1	1.10	40	100	<5	<10	1.03	<5	8	<5	14	2.41	<50
2099644		3.94	0.009	<1	1.03	40	90	<5	<10	0.83	<5	7	<5	14	2.18	<50
2099645		4.24	0.005	1	1.25	60	90	<5	<10	0.91	<5	7	<5	13	2.37	<50
2099646		3.70	0.007	1	1.12	100	100	<5	<10	1.21	<5	7	<5	27	2.44	<50
2099647		4.52	0.035	1	1.04	70	90	<5	<10	1.65	<5	8	<5	18	2.81	<50
2099648		4.26	0.011	1	1.31	30	110	<5	<10	1.99	<5	7	<5	9	2.50	<50
2099649		3.30	0.012	1	1.17	10	320	<5	<10	3.02	<5	9	<5	17	2.74	<50
2099650		2.82	0.078	4	1.07	10	680	<5	<10	1.74	<5	8	<5	311	3.02	<50
2099651		3.92	0.023	3	1.26	50	710	<5	<10	3.35	6	9	<5	9	3.49	<50
2099652		3.70	0.016	1	1.23	20	360	<5	10	3.44	5	7	<5	11	3.13	<50
2099653		3.74	0.007	1	1.32	30	330	<5	<10	2.82	<5	8	<5	6	2.64	<50
2099654		4.00	0.007	<1	0.76	10	340	<5	<10	3.01	<5	5	<5	9	2.64	<50
2099655		3.04	0.007	1	0.80	20	140	<5	<10	2.48	<5	10	<5	<5	2.95	<50
2099656		<0.02	0.007	1	0.81	20	140	<5	10	2.52	<5	5	<5	<5	2.96	<50
2099657		3.16	0.009	1	0.76	10	100	<5	<10	1.59	<5	6	<5	7	2.47	<50
2099658		0.08	0.752	<1	1.68	<10	120	<5	<10	1.04	<5	11	33	32	2.66	<50
2099659		3.96	0.011	<1	0.83	10	200	<5	<10	0.93	<5	6	<5	29	3.01	<50
2099660		3.30	0.015	1	0.75	20	120	<5	<10	0.95	<5	9	<5	21	3.08	<50
2099661		2.26	0.015	<1	0.90	30	120	<5	<10	0.52	<5	<5	<5	26	2.80	<50
2099662		0.08	0.003	<1	1.72	<10	120	<5	10	1.07	<5	9	31	15	2.42	<50
2099663		3.74	0.012	1	0.78	30	120	<5	<10	1.17	<5	9	<5	9	3.08	<50
2099664		3.26	0.011	1	0.81	10	150	<5	<10	1.09	<5	7	<5	<5	2.70	<50
2099665		4.40	0.006	1	0.72	10	220	<5	<10	3.45	<5	6	<5	<5	2.29	<50
2099666		3.58	0.024	1	0.79	<10	110	<5	10	1.51	<5	<5	<5	8	2.42	<50
2099667		3.96	0.012	1	0.78	<10	160	<5	<10	1.49	<5	7	6	31	2.22	<50
2099668		3.86	0.006	<1	0.89	<10	410	<5	<10	4.37	<5	8	<5	10	2.21	<50
2099669		3.90	0.007	1	1.01	<10	260	<5	<10	2.44	<5	9	<5	<5	2.61	<50
2099670		3.50	0.004	1	1.20	40	790	<5	<10	3.12	<5	6	<5	<5	2.67	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099631		<5	0.72	<50	0.08	380	26	<0.05	<5	1120	70	2.15	<10	<5	84
2099632		<5	0.70	<50	0.08	250	19	<0.05	<5	1030	60	1.52	<10	<5	70
2099633		<5	0.74	<50	0.10	910	12	<0.05	<5	1100	30	1.56	<10	<5	83
2099634		<5	0.66	<50	0.10	1190	12	<0.05	<5	1030	90	2.09	<10	<5	127
2099635		<5	0.74	<50	0.09	1870	16	<0.05	<5	1090	60	1.64	<10	<5	116
2099636		<5	0.66	<50	0.09	2310	12	<0.05	11	1120	110	1.67	<10	<5	137
2099637		<5	0.73	<50	0.12	2090	5	<0.05	<5	1150	30	0.99	<10	<5	139
2099638		<5	0.66	<50	0.14	2070	8	<0.05	<5	1200	40	1.78	10	<5	199
2099639		<5	0.77	<50	0.15	1240	<5	<0.05	<5	1170	20	0.46	<10	<5	94
2099640		<5	0.71	<50	0.16	1680	<5	<0.05	<5	1140	20	0.96	<10	<5	109
2099641		<5	0.69	<50	0.18	2560	6	<0.05	<5	1100	40	1.56	<10	<5	300
2099642		<5	0.70	<50	0.16	2140	<5	<0.05	<5	1100	10	0.86	<10	<5	152
2099643		<5	0.73	<50	0.13	1470	<5	<0.05	<5	1090	20	1.55	<10	<5	176
2099644		<5	0.64	<50	0.14	1260	<5	<0.05	<5	1000	20	1.16	<10	<5	156
2099645		<5	0.71	<50	0.18	1410	<5	<0.05	<5	1110	40	0.93	<10	<5	142
2099646		<5	0.66	<50	0.18	1490	<5	<0.05	7	1130	50	1.29	<10	<5	175
2099647		<5	0.62	<50	0.21	2290	7	<0.05	<5	1050	150	1.76	<10	<5	233
2099648		<5	0.68	<50	0.28	2490	<5	<0.05	<5	1130	40	1.04	<10	<5	257
2099649		<5	0.61	<50	0.24	1860	<5	<0.05	<5	1120	70	2.33	<10	<5	162
2099650		<5	0.50	<50	0.33	1480	<5	<0.05	39	1120	210	2.42	<10	<5	215
2099651		<5	0.52	<50	0.41	2490	<5	<0.05	<5	1110	230	2.55	<10	<5	218
2099652		<5	0.52	<50	0.59	2310	<5	<0.05	<5	1000	190	2.62	<10	<5	224
2099653		<5	0.55	<50	0.38	1830	<5	<0.05	<5	1110	70	1.98	<10	<5	161
2099654		<5	0.45	<50	0.17	1320	<5	<0.05	<5	860	80	2.63	<10	<5	119
2099655		<5	0.49	<50	0.16	900	<5	<0.05	<5	870	70	3.17	<10	<5	95
2099656		<5	0.49	<50	0.16	910	<5	<0.05	<5	870	60	3.19	10	<5	99
2099657		<5	0.49	<50	0.13	640	<5	<0.05	<5	950	30	2.65	<10	<5	104
2099658		<5	0.17	<50	0.70	430	<5	0.10	22	570	<10	<0.05	<10	6	48
2099659		<5	0.55	<50	0.09	520	6	0.05	13	910	10	3.19	10	<5	71
2099660		<5	0.54	<50	0.09	570	10	<0.05	<5	940	20	3.31	<10	<5	80
2099661		<5	0.61	<50	0.10	230	11	<0.05	<5	920	20	3.00	<10	<5	68
2099662		<5	0.18	<50	0.71	430	<5	0.10	18	560	<10	0.05	<10	6	52
2099663		<5	0.56	<50	0.10	600	<5	<0.05	<5	920	20	3.31	<10	<5	79
2099664		<5	0.57	<50	0.09	680	<5	<0.05	<5	840	10	2.89	<10	<5	74
2099665		<5	0.49	<50	0.09	2440	<5	<0.05	<5	890	30	2.46	<10	<5	142
2099666		<5	0.54	<50	0.10	980	<5	<0.05	<5	890	40	2.58	<10	<5	101
2099667		<5	0.52	<50	0.10	770	<5	<0.05	10	920	50	2.36	10	<5	99
2099668		<5	0.58	<50	0.17	2230	<5	<0.05	<5	840	60	2.30	<10	<5	166
2099669		<5	0.57	<50	0.27	1200	<5	<0.05	<5	870	50	2.70	<10	<5	152
2099670		<5	0.57	<50	0.42	1340	<5	<0.05	<5	920	30	2.65	10	<5	181



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099631		<0.05	<50	<50	10	<50	130
2099632		<0.05	<50	<50	8	<50	100
2099633		<0.05	<50	<50	12	<50	140
2099634		<0.05	<50	<50	11	<50	140
2099635		<0.05	<50	<50	12	<50	130
2099636		<0.05	<50	<50	10	<50	370
2099637		<0.05	<50	<50	12	<50	70
2099638		<0.05	<50	<50	12	<50	50
2099639		<0.05	<50	<50	11	<50	70
2099640		<0.05	<50	<50	15	<50	80
2099641		<0.05	<50	<50	15	<50	160
2099642		<0.05	<50	<50	13	<50	60
2099643		<0.05	<50	<50	12	<50	50
2099644		<0.05	<50	<50	11	<50	40
2099645		<0.05	<50	<50	14	<50	100
2099646		<0.05	<50	<50	12	<50	90
2099647		<0.05	<50	<50	14	<50	330
2099648		<0.05	<50	<50	13	<50	90
2099649		<0.05	<50	<50	12	<50	130
2099650		<0.05	<50	<50	12	<50	330
2099651		<0.05	<50	<50	13	<50	620
2099652		<0.05	<50	<50	12	<50	510
2099653		<0.05	<50	<50	11	<50	300
2099654		<0.05	<50	<50	7	<50	180
2099655		<0.05	<50	<50	6	<50	150
2099656		<0.05	<50	<50	<5	<50	140
2099657		<0.05	<50	<50	5	<50	80
2099658		0.19	<50	<50	71	<50	40
2099659		<0.05	<50	<50	5	<50	10
2099660		<0.05	<50	<50	5	<50	40
2099661		<0.05	<50	<50	7	<50	30
2099662		0.20	<50	<50	69	<50	30
2099663		<0.05	<50	<50	8	<50	50
2099664		<0.05	<50	<50	5	<50	30
2099665		<0.05	<50	<50	5	<50	90
2099666		<0.05	<50	<50	<5	<50	180
2099667		<0.05	<50	<50	<5	<50	110
2099668		<0.05	<50	<50	<5	<50	170
2099669		<0.05	<50	<50	7	<50	160
2099670		<0.05	<50	<50	5	<50	50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099671		0.08	3.77	2	0.51	700	2870	<5	<10	2.08	<5	9	24	69	2.86	<50
2099672		4.20	0.008	1	1.14	<10	250	<5	<10	1.39	<5	5	<5	5	2.73	<50
2099673		4.16	0.006	<1	1.24	10	780	<5	<10	2.63	<5	6	<5	<5	2.59	<50
2099674		3.50	0.005	1	1.42	<10	200	<5	<10	1.60	<5	8	<5	18	3.01	<50
2099675		4.38	0.006	1	1.87	10	230	<5	<10	3.62	<5	22	13	21	4.51	<50
2099676		3.82	0.005	1	1.76	10	220	<5	<10	3.45	<5	20	14	21	4.33	<50
2099677		4.70	0.005	1	1.81	10	180	<5	<10	2.40	<5	16	5	17	4.11	<50
2099678		4.44	0.004	1	2.01	10	190	<5	10	2.11	<5	16	6	27	4.88	<50
2099679		3.84	0.012	1	1.91	10	210	<5	<10	2.48	<5	18	<5	64	5.26	<50
2099680		3.20	0.012	2	2.13	30	140	<5	<10	5.15	<5	7	<5	49	3.27	<50
2099681		4.58	0.021	1	2.40	10	160	<5	10	3.56	<5	19	9	53	4.88	<50
2099682		4.00	0.028	2	1.94	20	200	<5	<10	2.74	<5	18	5	31	4.87	<50
2099683		3.94	0.023	2	2.08	20	190	<5	10	3.78	<5	18	6	44	4.80	<50
2099684		4.44	0.015	1	2.20	10	150	<5	<10	2.82	<5	21	7	33	4.64	<50
2099685		4.28	0.069	2	2.22	20	130	<5	<10	6.36	<5	18	10	84	3.88	<50
2099686		4.22	0.043	1	2.05	20	170	<5	<10	5.35	<5	15	9	75	4.17	<50
2099687		4.34	0.015	<1	2.81	<10	160	<5	10	2.78	<5	16	11	46	5.13	<50
2099688		3.98	0.011	<1	3.85	<10	110	<5	10	2.49	<5	17	16	112	6.68	<50
2099689		4.60	0.009	<1	3.69	10	120	<5	10	1.93	<5	20	14	133	6.06	<50
2099690		3.32	0.021	1	1.63	10	150	<5	<10	2.42	<5	24	7	19	4.43	<50
2099691		3.08	0.015	1	2.39	<10	110	<5	<10	2.83	<5	21	14	17	6.07	<50
2099692		2.72	0.012	<1	2.95	<10	100	<5	<10	3.17	<5	22	10	30	5.17	<50
2099693		1.86	0.013	1	1.75	<10	160	<5	10	3.80	<5	20	7	24	6.40	<50
2099752		4.64	0.003	<1	2.21	<10	90	<5	10	5.33	<5	6	<5	9	2.77	<50
2099753		5.62	0.001	<1	2.01	<10	90	<5	<10	2.90	<5	7	5	17	2.88	<50
2099754		5.38	0.004	<1	1.98	<10	70	<5	<10	2.80	<5	7	6	18	3.53	<50
2099755		5.90	0.007	<1	1.61	<10	80	<5	<10	3.77	<5	<5	<5	9	2.48	<50
2099756		4.88	0.011	<1	1.49	20	70	<5	<10	2.87	<5	5	<5	5	2.27	<50
2099757		5.02	0.014	<1	1.06	40	<50	<5	<10	1.23	<5	<5	<5	<5	2.63	<50
2099758		2.70	0.009	<1	1.11	40	<50	<5	10	0.82	<5	5	<5	8	2.37	<50
2099759		4.00	0.028	1	1.15	40	50	<5	10	0.51	<5	6	<5	6	2.79	<50
2099760		3.70	0.023	<1	1.03	20	<50	<5	<10	1.60	<5	<5	<5	7	2.47	<50
2099761		4.06	0.031	<1	1.56	30	<50	<5	<10	1.23	<5	<5	<5	7	2.28	<50
2099762		4.36	0.113	1	0.93	10	<50	<5	10	2.04	<5	<5	<5	5	2.07	<50
2099763		6.26	0.026	<1	1.47	30	<50	<5	10	3.47	<5	<5	<5	8	2.26	<50
2099764		6.16	0.070	<1	2.25	<10	50	<5	<10	4.21	<5	<5	<5	14	2.13	<50
2099765		6.34	0.158	<1	1.45	10	60	<5	<10	5.65	<5	<5	<5	5	2.04	<50
2099766		6.44	0.016	<1	1.27	30	50	<5	<10	2.75	<5	<5	<5	7	2.12	<50
2099767		6.48	0.016	<1	1.36	30	60	<5	<10	1.98	<5	<5	<5	8	2.12	<50
2099768		5.62	0.032	<1	1.21	<10	70	<5	10	2.05	<5	<5	<5	6	2.20	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099671		<5	0.31	<50	0.81	310	24	<0.05	72	800	10	1.96	10	<5	38
2099672		<5	0.48	<50	0.48	720	<5	0.05	<5	960	50	2.79	<10	<5	138
2099673		<5	0.49	<50	0.64	1200	<5	0.07	<5	880	50	2.56	<10	<5	196
2099674		<5	0.50	<50	0.63	1060	<5	0.06	<5	1050	40	2.99	<10	<5	156
2099675		<5	0.56	<50	0.98	1970	<5	<0.05	18	1150	30	4.35	<10	<5	216
2099676		<5	0.54	<50	0.94	1880	<5	0.05	19	1100	30	4.16	10	<5	207
2099677		<5	0.55	<50	0.86	1550	<5	0.05	7	1140	40	4.16	<10	<5	174
2099678		<5	0.56	<50	0.79	1420	<5	<0.05	15	1170	50	5.06	<10	<5	141
2099679		<5	0.68	<50	0.77	1230	<5	<0.05	<5	990	30	5.66	10	<5	106
2099680		<5	0.45	<50	1.11	2440	<5	<0.05	<5	880	70	3.10	<10	<5	191
2099681		<5	0.51	<50	1.15	2070	<5	0.05	8	1200	40	4.69	10	5	165
2099682		<5	0.55	<50	0.88	1480	<5	<0.05	8	1080	70	4.93	<10	<5	125
2099683		<5	0.59	<50	0.88	1800	<5	<0.05	10	1170	90	4.89	10	<5	166
2099684		<5	0.43	<50	0.90	1490	<5	<0.05	10	1190	90	4.64	10	<5	146
2099685		<5	0.37	<50	1.20	3000	<5	0.05	8	870	140	3.59	10	5	259
2099686		<5	0.32	<50	1.20	2390	<5	<0.05	14	950	40	3.84	10	5	192
2099687		<5	0.43	<50	1.72	1840	<5	<0.05	11	1000	40	4.69	10	6	146
2099688		<5	0.33	<50	3.18	2140	<5	<0.05	11	1510	50	5.76	10	9	106
2099689		<5	0.36	<50	3.04	1820	<5	<0.05	6	1400	70	5.24	<10	9	86
2099690		<5	0.45	<50	0.79	1300	<5	<0.05	23	880	80	4.44	<10	<5	96
2099691		<5	0.37	<50	1.65	1600	<5	<0.05	22	1260	50	5.88	10	5	118
2099692		<5	0.33	<50	1.80	1480	<5	<0.05	21	1350	30	5.05	<10	<5	155
2099693		<5	0.48	<50	0.90	1520	<5	<0.05	23	1430	50	6.55	<10	<5	141
2099752		<5	0.44	<50	0.73	1940	<5	<0.05	<5	1080	10	<0.05	<10	<5	84
2099753		<5	0.66	<50	0.74	1150	<5	<0.05	<5	1100	<10	<0.05	<10	<5	65
2099754		<5	0.63	<50	0.73	1220	<5	<0.05	<5	1110	<10	0.47	<10	<5	68
2099755		<5	0.46	<50	0.61	1710	<5	<0.05	<5	1010	<10	0.29	10	<5	58
2099756		<5	0.42	<50	0.57	1210	<5	<0.05	<5	1020	<10	0.54	10	<5	66
2099757		<5	0.30	<50	0.46	740	<5	<0.05	<5	950	<10	0.53	10	<5	28
2099758		<5	0.37	<50	0.49	720	<5	<0.05	<5	980	<10	0.51	<10	<5	32
2099759		<5	0.33	<50	0.54	760	<5	<0.05	<5	1190	<10	0.81	10	<5	26
2099760		<5	0.37	<50	0.40	860	<5	<0.05	<5	1000	<10	0.56	<10	<5	29
2099761		<5	0.42	<50	0.47	690	<5	<0.05	<5	970	<10	0.61	10	<5	41
2099762		<5	0.26	<50	0.40	720	<5	<0.05	<5	790	<10	0.57	10	<5	27
2099763		<5	0.55	<50	0.49	1140	<5	<0.05	<5	1030	<10	0.63	10	<5	57
2099764		<5	0.20	<50	0.39	1430	<5	<0.05	5	970	10	0.63	<10	<5	101
2099765		<5	0.27	<50	0.37	2890	<5	<0.05	<5	760	<10	0.63	10	<5	83
2099766		<5	0.48	<50	0.37	1270	<5	<0.05	<5	940	<10	0.52	<10	<5	45
2099767		<5	0.50	<50	0.41	820	<5	<0.05	<5	990	<10	0.63	10	<5	49
2099768		<5	0.48	<50	0.38	790	<5	<0.05	<5	940	<10	0.28	10	<5	40



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099671		<0.05	<50	<50	90	<50	140
2099672		<0.05	<50	<50	7	<50	120
2099673		<0.05	<50	<50	6	<50	190
2099674		<0.05	<50	<50	12	<50	110
2099675		<0.05	<50	<50	35	<50	130
2099676		<0.05	<50	<50	33	<50	130
2099677		<0.05	<50	<50	25	<50	220
2099678		<0.05	<50	<50	28	<50	200
2099679		<0.05	<50	<50	31	<50	60
2099680		<0.05	<50	<50	17	<50	150
2099681		<0.05	<50	<50	42	<50	200
2099682		<0.05	<50	<50	33	<50	420
2099683		<0.05	<50	<50	36	<50	470
2099684		<0.05	<50	<50	34	<50	220
2099685		<0.05	<50	<50	43	<50	330
2099686		<0.05	<50	<50	53	<50	160
2099687		<0.05	<50	<50	56	<50	130
2099688		<0.05	<50	<50	87	<50	250
2099689		<0.05	<50	<50	108	<50	260
2099690		<0.05	<50	<50	37	<50	200
2099691		<0.05	<50	<50	56	<50	90
2099692		<0.05	<50	<50	49	<50	80
2099693		<0.05	<50	<50	35	<50	90
2099752		0.14	<50	<50	54	<50	60
2099753		0.18	<50	<50	53	<50	50
2099754		0.11	<50	<50	50	<50	70
2099755		0.08	<50	<50	37	<50	50
2099756		0.07	<50	<50	34	<50	60
2099757		0.10	<50	<50	38	<50	50
2099758		0.09	<50	<50	29	<50	40
2099759		0.09	<50	<50	34	<50	40
2099760		0.11	<50	<50	30	<50	50
2099761		0.07	<50	<50	27	<50	40
2099762		0.10	<50	<50	28	<50	30
2099763		0.06	<50	<50	24	<50	40
2099764		0.14	<50	<50	30	<50	40
2099765		0.10	<50	<50	25	<50	30
2099766		0.08	<50	<50	25	<50	30
2099767		0.07	<50	<50	26	<50	30
2099768		0.07	<50	<50	31	<50	40



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099769		3.80	0.202	4	0.66	10	<50	<5	10	1.87	<5	<5	<5	<5	2.38	<50
2099770		4.54	0.152	1	0.70	10	<50	<5	<10	1.58	<5	<5	6	<5	2.37	<50
2099771		6.04	0.061	<1	1.58	20	<50	<5	10	2.32	<5	7	<5	6	2.59	<50
2099772		6.90	0.004	<1	1.77	30	70	<5	<10	2.57	<5	<5	<5	6	2.57	<50
2099773		5.24	0.014	<1	1.96	20	60	<5	<10	2.27	<5	7	<5	8	2.62	<50
2099774		5.02	0.017	<1	1.82	20	<50	<5	<10	2.44	<5	5	<5	8	2.66	<50
2099775		6.62	0.009	<1	1.68	20	50	<5	<10	2.68	<5	<5	<5	6	2.42	<50
2099776		6.92	0.009	<1	1.77	10	<50	<5	<10	1.42	<5	5	<5	9	2.59	<50
2099777		4.62	0.007	<1	1.73	<10	<50	<5	<10	0.94	<5	6	<5	10	2.62	<50
2099778		5.10	0.007	<1	1.04	20	<50	<5	<10	0.55	<5	7	<5	8	2.78	<50
2099779		3.70	0.009	<1	0.88	10	<50	<5	<10	0.47	<5	5	<5	6	2.82	<50
2099780		2.86	0.033	1	0.70	20	<50	<5	<10	0.46	<5	<5	5	19	2.64	<50
2099781		5.54	0.103	1	0.66	10	<50	<5	<10	0.41	<5	5	6	15	2.58	<50
2099782		3.08	0.031	1	0.55	<10	<50	<5	<10	0.36	<5	5	5	15	2.49	<50
2099783		4.56	0.046	1	0.58	10	<50	<5	<10	0.51	<5	5	6	9	2.57	<50
2099784		4.36	0.549	6	0.57	40	<50	<5	<10	0.43	<5	5	7	<5	2.07	<50
2099785		6.96	0.666	3	0.64	50	<50	<5	<10	0.46	<5	<5	8	6	2.14	<50
2099786		4.08	1.140	3	0.76	110	<50	<5	10	0.75	<5	5	7	6	2.05	<50
2099787		3.30	1.075	4	0.70	30	<50	<5	10	2.50	<5	<5	<5	6	2.07	<50
2099788		4.12	2.82	6	0.29	<10	<50	<5	<10	11.60	<5	<5	<5	<5	0.91	<50
2099789		0.08	0.872	<1	1.63	<10	100	<5	<10	1.07	<5	9	32	29	2.66	<50
2099790		5.28	0.454	2	0.57	20	<50	<5	<10	6.30	<5	<5	<5	<5	1.38	<50
2099791		5.48	0.188	2	1.02	60	<50	<5	<10	0.63	<5	7	<5	9	2.71	<50
2099792		<0.02	0.104	1	0.88	20	<50	<5	10	0.55	<5	<5	<5	7	2.69	<50
2099793		7.02	0.101	1	0.89	20	<50	<5	<10	0.55	<5	6	<5	6	2.71	<50
2099794		6.46	0.211	1	0.90	<10	<50	<5	<10	1.25	<5	6	<5	9	2.67	<50
2099795		6.96	0.197	1	0.78	<10	<50	<5	<10	1.80	<5	<5	<5	8	2.67	<50
2099796		8.06	0.021	<1	0.78	<10	<50	<5	<10	1.42	<5	5	<5	7	2.63	<50
2099797		7.40	0.094	<1	0.78	<10	<50	<5	<10	1.90	<5	<5	<5	9	2.69	<50
2099798		5.02	0.393	1	0.77	10	<50	<5	<10	1.20	<5	5	<5	10	2.71	<50
2099799		6.58	0.123	<1	0.68	10	<50	<5	10	1.37	<5	<5	6	10	2.75	<50
2099800		5.86	0.185	<1	0.60	20	<50	<5	<10	3.06	<5	<5	<5	7	2.52	<50
2099801		2.70	0.108	1	0.70	<10	<50	<5	<10	1.48	<5	5	5	8	2.71	<50
2099802		7.12	0.282	1	0.84	10	<50	<5	<10	0.74	<5	7	<5	11	2.84	<50
2099803		4.40	0.191	4	0.77	10	<50	<5	<10	0.96	<5	6	16	39	2.70	<50
2099804		1.48	0.539	6	0.66	<10	<50	<5	<10	3.29	<5	<5	<5	14	2.32	<50
2099805		5.26	0.023	1	1.65	20	60	<5	<10	0.29	<5	12	<5	15	3.18	<50
2099806		6.30	0.009	1	1.68	10	60	<5	10	1.18	<5	12	11	23	3.83	<50
2099807		2.92	0.065	1	1.52	10	50	<5	<10	1.28	<5	10	7	23	3.71	<50
2099808		7.36	0.299	3	0.59	30	<50	<5	<10	5.24	<5	<5	<5	15	2.65	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099769		<5	0.22	<50	0.39	740	<5	<0.05	<5	810	10	0.45	<10	<5	16
2099770		<5	0.20	<50	0.42	740	<5	<0.05	<5	810	<10	0.49	10	5	19
2099771		<5	0.38	<50	0.74	940	<5	<0.05	<5	940	10	0.63	<10	<5	47
2099772		<5	0.50	<50	0.73	1430	<5	<0.05	<5	990	<10	0.53	10	<5	53
2099773		<5	0.49	<50	0.81	1180	<5	<0.05	<5	960	10	0.76	<10	<5	57
2099774		<5	0.45	<50	0.79	1250	<5	<0.05	<5	1080	<10	1.01	10	<5	71
2099775		<5	0.46	<50	0.68	1300	<5	<0.05	<5	990	10	0.57	<10	<5	58
2099776		<5	0.41	<50	0.77	1140	<5	<0.05	<5	1040	<10	0.73	<10	<5	50
2099777		<5	0.40	<50	0.75	1020	<5	<0.05	<5	1090	10	0.46	<10	<5	47
2099778		<5	0.23	<50	0.59	670	<5	<0.05	<5	1070	10	0.43	<10	<5	25
2099779		<5	0.18	<50	0.58	630	<5	<0.05	<5	980	<10	0.39	<10	<5	20
2099780		<5	0.19	<50	0.40	530	<5	<0.05	<5	940	10	0.24	10	5	17
2099781		<5	0.20	<50	0.41	530	<5	<0.05	<5	960	<10	0.23	<10	5	17
2099782		<5	0.23	<50	0.38	500	<5	<0.05	<5	890	<10	0.27	10	<5	15
2099783		<5	0.22	<50	0.41	560	<5	<0.05	<5	890	<10	0.37	<10	<5	14
2099784		<5	0.22	<50	0.42	550	<5	<0.05	<5	740	<10	1.40	<10	<5	11
2099785		<5	0.23	<50	0.36	660	<5	<0.05	<5	1090	<10	1.18	<10	<5	11
2099786		<5	0.22	<50	0.47	770	<5	<0.05	<5	690	<10	3.88	<10	<5	15
2099787		<5	0.16	<50	0.47	950	<5	<0.05	<5	670	<10	0.79	10	<5	31
2099788		<5	0.10	<50	0.17	1720	<5	<0.05	<5	270	<10	0.50	<10	<5	250
2099789		<5	0.16	<50	0.72	420	<5	0.09	27	540	<10	0.10	20	5	42
2099790		<5	0.20	<50	0.20	940	<5	<0.05	<5	430	<10	0.93	<10	<5	74
2099791		<5	0.23	<50	0.62	750	<5	<0.05	<5	930	10	1.55	<10	<5	19
2099792		<5	0.26	<50	0.39	780	<5	0.05	<5	950	<10	1.55	<10	5	11
2099793		<5	0.26	<50	0.39	780	<5	<0.05	<5	950	<10	1.58	<10	5	16
2099794		<5	0.31	<50	0.30	1010	<5	<0.05	<5	960	10	1.26	<10	5	18
2099795		<5	0.26	<50	0.24	970	<5	0.05	<5	920	<10	0.78	<10	6	24
2099796		<5	0.26	<50	0.23	800	<5	<0.05	<5	920	<10	0.37	<10	5	25
2099797		<5	0.24	<50	0.22	870	<5	0.05	<5	920	<10	0.62	<10	5	30
2099798		<5	0.26	<50	0.23	790	<5	0.05	<5	930	10	1.15	10	5	24
2099799		<5	0.19	<50	0.22	920	<5	0.07	<5	910	<10	1.07	10	5	20
2099800		<5	0.16	<50	0.22	1970	<5	0.05	<5	880	<10	1.11	10	5	22
2099801		<5	0.20	<50	0.34	1220	<5	0.05	<5	990	<10	0.96	10	5	18
2099802		<5	0.20	<50	0.40	1080	<5	0.05	<5	1020	10	1.13	10	5	18
2099803		<5	0.20	<50	0.47	1170	<5	<0.05	13	870	50	0.87	<10	5	17
2099804		<5	0.10	<50	0.29	1970	<5	0.05	<5	770	10	0.82	<10	5	28
2099805		<5	0.58	<50	0.58	740	<5	<0.05	<5	80	10	1.37	<10	5	21
2099806		<5	0.55	<50	0.50	750	<5	<0.05	<5	910	10	0.83	<10	7	44
2099807		<5	0.45	<50	0.51	810	<5	0.05	<5	670	<10	1.46	10	7	40
2099808		<5	0.25	<50	0.19	840	<5	<0.05	<5	270	<10	2.28	10	5	91



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099769		0.13	<50	<50	33	<50	50
2099770		0.15	<50	<50	39	<50	30
2099771		0.07	<50	<50	32	<50	50
2099772		0.07	<50	<50	24	<50	50
2099773		<0.05	<50	<50	26	<50	50
2099774		<0.05	<50	<50	31	<50	50
2099775		0.06	<50	<50	31	<50	50
2099776		0.07	<50	<50	32	<50	50
2099777		0.08	<50	<50	49	<50	50
2099778		0.15	<50	<50	43	<50	50
2099779		0.17	<50	<50	46	<50	50
2099780		0.14	<50	<50	46	<50	60
2099781		0.14	<50	<50	44	<50	50
2099782		0.14	<50	<50	35	<50	40
2099783		0.14	<50	<50	29	<50	40
2099784		0.15	<50	<50	28	<50	30
2099785		0.15	<50	<50	36	<50	40
2099786		0.11	<50	<50	37	<50	40
2099787		0.12	<50	<50	41	<50	30
2099788		0.07	<50	<50	16	<50	20
2099789		0.19	<50	<50	68	<50	50
2099790		0.08	<50	<50	25	<50	20
2099791		0.12	<50	<50	41	<50	50
2099792		0.15	<50	<50	36	<50	40
2099793		0.15	<50	<50	37	<50	40
2099794		0.17	<50	<50	46	<50	50
2099795		0.17	<50	<50	49	<50	50
2099796		0.17	<50	<50	47	<50	40
2099797		0.16	<50	<50	44	<50	40
2099798		0.15	<50	<50	43	<50	50
2099799		0.14	<50	<50	44	<50	40
2099800		0.10	<50	<50	39	<50	40
2099801		0.11	<50	<50	39	<50	50
2099802		0.11	<50	<50	40	<50	50
2099803		0.16	<50	<50	46	<50	90
2099804		0.15	<50	<50	48	<50	50
2099805		<0.05	<50	<50	22	<50	40
2099806		0.17	<50	<50	87	<50	60
2099807		0.15	<50	<50	72	<50	50
2099808		0.10	<50	<50	25	<50	30



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099809		3.10	0.017	1	1.30	10	80	<5	<10	1.94	<5	8	7	22	3.30	<50
2099810		0.08	4.03	2	0.49	680	2690	<5	10	2.08	<5	6	22	66	2.80	<50
2099811		5.64	0.021	1	1.53	10	100	<5	10	0.74	<5	9	<5	24	3.19	<50
2099812		6.26	0.023	<1	1.70	<10	100	<5	10	1.71	<5	9	6	26	3.25	<50
2099813		0.08	0.002	<1	1.67	<10	110	<5	10	1.11	<5	5	29	16	2.39	<50
2099814		5.24	0.008	<1	1.64	<10	100	<5	10	0.83	<5	15	6	30	3.32	<50
2099815		6.10	0.008	<1	2.05	<10	100	<5	<10	3.42	<5	14	21	36	3.85	<50
2099816		6.48	0.006	1	2.00	<10	80	<5	<10	3.48	<5	14	21	40	4.00	<50
2099817		5.48	0.007	1	1.82	10	60	<5	<10	4.26	<5	15	21	30	4.00	<50
2099818		5.92	0.011	<1	1.64	20	70	<5	<10	3.21	<5	13	13	24	3.65	<50
2099819		6.20	0.020	<1	1.59	<10	70	<5	<10	3.21	<5	14	14	28	3.86	<50
2099820		5.20	0.033	<1	2.01	10	70	<5	<10	2.07	<5	17	19	31	4.14	<50
2099821		6.62	0.006	<1	1.84	<10	70	<5	<10	2.23	<5	13	11	35	3.56	<50
2099822		5.76	0.056	1	1.76	<10	60	<5	<10	1.50	<5	15	6	28	3.58	<50
2099823		5.16	0.005	<1	1.65	<10	50	<5	<10	1.42	<5	11	8	22	3.71	<50
2099824		6.50	0.019	<1	1.53	<10	50	<5	<10	2.65	<5	14	12	30	3.88	<50
2099825		4.98	0.061	1	1.49	<10	60	<5	<10	2.89	<5	13	<5	25	3.80	<50
2099826		4.92	0.016	1	1.84	10	60	<5	<10	1.82	<5	11	5	27	3.59	<50



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CERTIFICATE OF ANALYSIS VA13029638

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100
2099809		<5	0.48	<50	0.33	530	<5	<0.05	<5	540	<10	2.09	10	6	53	<100
2099810		6	0.29	<50	0.81	290	20	<0.05	67	780	20	1.99	10	<5	31	<100
2099811		<5	0.56	<50	0.40	450	<5	<0.05	<5	250	<10	2.12	10	6	30	<100
2099812		<5	0.60	<50	0.40	500	<5	<0.05	<5	220	10	1.82	<10	6	49	<100
2099813		<5	0.17	<50	0.72	420	<5	0.09	14	540	<10	0.09	<10	6	43	<100
2099814		<5	0.62	<50	0.46	520	<5	<0.05	6	580	<10	2.11	<10	5	28	<100
2099815		<5	0.57	<50	0.73	1660	<5	<0.05	17	890	<10	0.95	10	7	52	<100
2099816		<5	0.55	<50	0.76	1620	<5	0.10	15	960	<10	0.74	10	8	52	<100
2099817		<5	0.54	<50	0.77	1640	<5	0.10	7	1070	<10	1.09	<10	9	53	<100
2099818		<5	0.54	<50	0.65	1300	<5	0.11	6	780	<10	1.15	<10	8	46	<100
2099819		<5	0.41	<50	0.67	1270	<5	0.10	8	670	<10	1.83	<10	8	49	<100
2099820		<5	0.50	<50	0.89	1320	<5	0.12	11	910	10	1.57	10	8	43	<100
2099821		<5	0.47	<50	0.78	1110	<5	0.11	13	560	<10	1.08	10	7	42	<100
2099822		<5	0.51	<50	0.77	670	<5	0.13	8	360	<10	1.68	<10	6	35	<100
2099823		<5	0.48	<50	0.70	700	<5	0.12	6	460	<10	1.09	<10	6	40	<100
2099824		<5	0.46	<50	0.55	830	<5	0.14	7	700	<10	1.08	<10	8	49	<100
2099825		<5	0.53	<50	0.39	500	<5	0.12	<5	240	<10	2.31	<10	5	66	<100
2099826		<5	0.56	<50	0.46	650	<5	0.14	5	600	<10	1.53	<10	5	49	<100



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099809		0.18	<50	<50	45	<50	60
2099810		<0.05	<50	<50	88	<50	140
2099811		0.12	<50	<50	30	<50	50
2099812		0.10	<50	<50	34	<50	50
2099813		0.20	<50	<50	67	<50	40
2099814		0.17	<50	<50	34	<50	40
2099815		0.25	<50	<50	73	<50	60
2099816		0.29	<50	<50	84	<50	60
2099817		0.28	<50	<50	79	<50	50
2099818		0.24	<50	<50	64	<50	40
2099819		0.24	<50	<50	68	<50	50
2099820		0.23	<50	<50	69	<50	50
2099821		0.22	<50	<50	53	<50	40
2099822		0.18	<50	<50	31	<50	50
2099823		0.21	<50	<50	50	<50	40
2099824		0.25	<50	<50	79	<50	50
2099825		0.17	<50	<50	26	<50	40
2099826		0.16	<50	<50	38	<50	60



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P.O. No.:

This report is for 230 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 13- FEB- 2013.

The following have access to data associated with this certificate:

JIM CUTTLE

MICHAEL FRYE

RYAN SHARP

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 34	Pulp Splitting Charge

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41a	High Grade Aqua Regia ICP- AES	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: VENERABLE VENTURES LTD
ATTN: JIM CUTTLE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099827		8.32	0.029	<1	0.83	20	70	<5	<10	0.54	<5	5	<5	17	2.12	<50
2099828		4.20	0.022	1	1.13	20	80	<5	<10	0.32	<5	5	<5	13	2.21	<50
2099829		4.68	0.021	1	1.03	10	50	<5	<10	0.32	<5	8	5	21	2.39	<50
2099830		6.28	0.024	1	1.10	60	<50	<5	<10	0.37	<5	10	6	11	2.87	<50
2099831		5.56	0.086	2	1.14	90	<50	<5	<10	0.40	<5	14	24	38	4.13	<50
2099832		5.38	0.136	2	1.02	90	<50	<5	<10	0.46	<5	10	12	45	3.36	<50
2099833		5.82	0.059	2	1.36	60	<50	<5	<10	0.51	<5	16	17	36	4.09	<50
2099834		6.18	0.087	2	1.18	90	<50	<5	<10	0.50	<5	16	23	33	4.19	<50
2099835		3.88	0.139	4	0.98	80	<50	<5	<10	0.51	<5	11	8	14	3.04	<50
2099836		6.22	0.068	1	1.11	50	<50	<5	<10	0.51	<5	5	<5	8	2.70	<50
2099837		7.12	0.082	1	1.12	40	<50	<5	<10	0.44	<5	8	<5	10	2.57	<50
2099838		6.10	0.027	1	0.97	30	<50	<5	<10	0.43	<5	6	<5	10	2.34	<50
2099839		5.68	0.027	<1	1.47	40	<50	<5	<10	0.48	<5	9	<5	15	2.67	<50
2099840		5.18	0.026	<1	1.42	30	<50	<5	<10	0.55	<5	9	<5	6	2.55	<50
2099841		5.14	0.024	<1	1.58	20	<50	<5	<10	0.50	<5	9	<5	9	2.62	<50
2099842		5.66	0.017	<1	1.07	20	<50	<5	<10	0.48	<5	10	<5	30	2.89	<50
2099843		6.66	0.052	1	0.85	10	60	<5	<10	0.36	<5	8	6	8	2.43	<50
2099844		6.74	0.056	1	0.86	50	<50	<5	<10	0.34	<5	9	6	<5	2.58	<50
2099845		5.48	0.062	<1	0.92	30	<50	<5	<10	0.45	<5	6	5	6	2.45	<50
2099846		4.72	0.172	<1	0.80	40	50	<5	<10	0.46	<5	7	6	6	2.48	<50
2099847		6.08	0.108	1	0.85	20	60	<5	<10	0.43	<5	7	6	6	2.51	<50
2099848		6.54	0.138	1	0.86	50	50	<5	<10	0.39	<5	8	8	17	2.77	<50
2099849		6.26	0.016	<1	2.27	20	240	<5	<10	1.62	<5	8	6	12	3.11	<50
2099850		8.16	0.013	<1	2.12	20	200	<5	<10	2.15	<5	9	8	25	3.72	<50
2099851		7.16	0.019	<1	2.15	20	150	<5	<10	1.53	<5	11	6	27	3.40	<50
2099852		6.52	0.022	1	2.30	20	210	<5	<10	1.31	<5	15	9	31	3.75	<50
2099853		6.70	0.011	<1	2.74	20	150	<5	<10	3.68	<5	15	10	31	3.93	<50
2099854		6.44	0.005	<1	2.63	10	90	<5	<10	3.05	<5	17	25	45	4.43	<50
2099855		6.56	0.003	<1	2.90	<10	140	<5	<10	4.57	<5	12	18	41	4.06	<50
2099856		5.92	0.005	<1	4.03	<10	280	<5	<10	3.78	<5	14	19	24	4.01	<50
2099857		5.60	0.024	<1	2.96	30	130	<5	<10	2.39	<5	8	5	24	4.37	<50
2099858		6.92	0.025	1	2.40	30	80	<5	<10	1.99	<5	7	<5	22	4.47	<50
2099859		6.20	0.009	<1	2.51	10	90	<5	<10	1.66	<5	7	5	21	3.89	<50
2099860		6.56	0.061	<1	2.37	20	110	<5	<10	2.19	<5	8	7	18	3.72	<50
2099861		7.16	0.016	<1	2.35	20	130	<5	<10	1.64	<5	9	5	25	3.51	<50
2099862		6.46	0.020	1	2.20	10	160	<5	<10	1.66	<5	10	5	29	3.27	<50
2099863		4.44	0.090	1	1.82	20	110	<5	10	2.31	<5	7	7	26	3.06	<50
2099864		0.08	0.002	<1	1.77	<10	110	<5	<10	1.16	<5	8	31	13	2.42	<50
2099865		5.10	0.053	2	1.65	50	80	<5	<10	1.32	<5	7	5	23	3.04	<50
2099866		5.32	0.172	3	1.35	90	50	<5	<10	0.78	<5	8	8	26	2.91	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099827		<5	0.37	<50	0.26	1040	<5	<0.05	<5	580	20	0.48	<10	<5	16
2099828		<5	0.48	<50	0.29	950	<5	0.08	<5	590	20	0.82	10	5	17
2099829		<5	0.40	<50	0.46	710	<5	<0.05	<5	570	<10	0.93	<10	6	12
2099830		<5	0.35	<50	0.63	700	<5	0.06	<5	880	<10	0.68	<10	6	19
2099831		<5	0.30	<50	0.96	830	<5	0.06	5	1060	<10	0.91	<10	8	21
2099832		<5	0.30	<50	0.55	660	<5	<0.05	<5	1030	<10	0.75	<10	7	24
2099833		<5	0.39	<50	0.64	1180	<5	0.06	<5	1020	20	0.88	10	10	24
2099834		<5	0.25	<50	0.72	920	<5	<0.05	5	1050	<10	1.26	<10	10	24
2099835		<5	0.25	<50	0.54	670	<5	0.07	<5	940	<10	1.41	10	7	24
2099836		<5	0.23	<50	0.55	900	<5	<0.05	<5	930	<10	1.11	<10	6	23
2099837		<5	0.25	<50	0.54	1270	<5	0.05	<5	890	<10	0.91	<10	5	23
2099838		<5	0.19	<50	0.49	550	<5	<0.05	<5	910	10	0.74	10	5	20
2099839		<5	0.52	<50	0.63	710	<5	<0.05	<5	1080	<10	0.71	10	<5	25
2099840		<5	0.49	<50	0.54	840	<5	<0.05	<5	1360	<10	0.65	10	<5	27
2099841		<5	0.46	<50	0.58	740	<5	<0.05	<5	990	<10	0.93	10	<5	29
2099842		<5	0.23	<50	0.51	1110	<5	<0.05	<5	900	10	1.02	10	6	23
2099843		<5	0.29	<50	0.38	910	<5	0.05	<5	730	<10	0.80	<10	5	22
2099844		<5	0.25	<50	0.43	900	<5	<0.05	<5	660	<10	1.16	<10	5	15
2099845		<5	0.25	<50	0.45	890	<5	0.05	<5	870	<10	0.69	<10	5	19
2099846		<5	0.25	<50	0.23	570	<5	0.05	<5	800	<10	0.94	<10	6	17
2099847		<5	0.30	<50	0.24	730	<5	0.08	<5	800	<10	1.00	<10	7	16
2099848		<5	0.27	<50	0.28	910	<5	<0.05	<5	910	10	1.21	10	6	14
2099849		<5	0.66	<50	0.43	1270	<5	<0.05	<5	340	<10	0.41	10	5	64
2099850		5	0.60	<50	0.37	1080	<5	<0.05	<5	380	<10	0.45	10	5	95
2099851		<5	0.64	<50	0.39	660	<5	<0.05	<5	670	<10	0.74	10	5	84
2099852		<5	0.72	<50	0.45	660	<5	<0.05	<5	440	<10	2.14	10	6	69
2099853		<5	0.59	<50	0.83	1430	<5	<0.05	9	730	<10	1.81	10	7	99
2099854		<5	0.81	<50	0.79	1680	<5	<0.05	9	940	10	0.34	<10	10	67
2099855		<5	0.68	<50	0.79	1800	<5	0.05	<5	840	<10	0.31	<10	8	103
2099856		<5	0.42	<50	0.87	1240	<5	0.13	<5	970	<10	0.26	<10	8	233
2099857		<5	0.44	<50	0.71	610	<5	0.05	<5	190	<10	1.42	<10	6	105
2099858		<5	0.46	<50	0.43	520	<5	0.05	<5	130	<10	3.16	<10	6	82
2099859		<5	0.44	<50	0.49	570	<5	<0.05	<5	140	<10	1.73	<10	5	88
2099860		<5	0.55	<50	0.42	520	<5	<0.05	<5	290	<10	0.99	<10	5	90
2099861		<5	0.59	<50	0.43	500	<5	<0.05	<5	210	<10	1.21	<10	5	79
2099862		<5	0.60	<50	0.42	710	<5	<0.05	8	170	<10	1.25	<10	5	54
2099863		<5	0.73	<50	0.34	620	<5	<0.05	<5	360	<10	1.58	<10	5	54
2099864		<5	0.18	<50	0.74	430	<5	0.12	12	570	<10	<0.05	<10	6	53
2099865		<5	0.82	<50	0.25	500	<5	<0.05	<5	180	<10	2.09	<10	6	39
2099866		<5	0.65	<50	0.27	380	<5	<0.05	<5	330	<10	1.93	<10	6	28



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099827		0.08	<50	<50	38	<50	220
2099828		0.09	<50	<50	35	<50	270
2099829		0.11	<50	<50	42	<50	70
2099830		0.13	<50	<50	57	<50	70
2099831		0.15	<50	<50	92	<50	70
2099832		0.15	<50	<50	76	<50	60
2099833		0.18	<50	<50	96	<50	100
2099834		0.17	<50	<50	91	<50	60
2099835		0.15	<50	<50	57	<50	50
2099836		0.15	<50	<50	51	<50	50
2099837		0.13	<50	<50	47	<50	60
2099838		0.13	<50	<50	38	<50	50
2099839		0.09	<50	<50	41	<50	60
2099840		0.08	<50	<50	35	<50	70
2099841		0.09	<50	<50	38	<50	60
2099842		0.16	<50	<50	52	<50	60
2099843		0.14	<50	<50	44	<50	40
2099844		0.13	<50	<50	51	<50	40
2099845		0.16	<50	<50	47	<50	50
2099846		0.18	<50	<50	50	<50	40
2099847		0.19	<50	<50	58	<50	40
2099848		0.15	<50	<50	57	<50	60
2099849		0.07	<50	<50	50	<50	60
2099850		0.07	<50	<50	57	<50	50
2099851		0.06	<50	<50	47	<50	80
2099852		<0.05	<50	<50	40	<50	50
2099853		0.23	<50	<50	43	<50	40
2099854		0.25	<50	<50	111	<50	70
2099855		0.26	<50	<50	110	<50	50
2099856		0.15	<50	<50	98	<50	50
2099857		<0.05	<50	<50	38	<50	40
2099858		<0.05	<50	<50	21	<50	30
2099859		<0.05	<50	<50	33	<50	40
2099860		<0.05	<50	<50	47	<50	40
2099861		<0.05	<50	<50	39	<50	40
2099862		<0.05	<50	<50	34	<50	40
2099863		0.06	<50	<50	35	<50	40
2099864		0.21	<50	<50	70	<50	40
2099865		0.06	<50	<50	26	<50	30
2099866		0.07	<50	<50	36	<50	30



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099867		5.10	0.302	3	1.22	10	<50	<5	10	0.54	<5	10	15	32	2.86	<50
2099868		1.56	0.120	1	1.20	<10	180	<5	<10	1.95	<5	7	17	33	2.78	<50
2099869		0.08	3.87	2	0.51	690	2740	<5	10	2.09	<5	<5	23	64	2.80	<50
2099870		5.64	0.035	2	1.59	10	<50	<5	10	2.51	<5	14	25	31	4.23	<50
2099871		4.02	0.088	25	1.37	20	<50	<5	<10	1.74	<5	11	15	45	3.19	<50
2099872		<0.02	0.091	25	1.38	<10	<50	<5	<10	1.74	<5	9	16	44	3.18	<50
2099873		1.82	0.013	1	2.04	30	<50	<5	<10	1.30	<5	20	27	43	4.63	<50
2099874		5.46	0.030	4	1.95	20	90	<5	<10	1.09	<5	13	21	42	3.51	<50
2099875		0.08	0.907	<1	1.69	<10	110	<5	10	1.10	<5	8	33	21	2.63	<50
2099876		7.04	0.015	1	1.81	10	100	<5	10	1.26	<5	10	16	33	3.33	<50
2099877		6.34	0.026	1	2.17	20	110	<5	10	2.21	<5	14	18	32	3.62	<50
2099878		6.28	0.010	1	2.14	20	90	<5	<10	0.60	<5	11	19	26	3.44	<50
2099879		5.84	0.035	1	1.42	20	60	<5	<10	0.65	<5	12	17	30	2.99	<50
2099880		5.12	0.027	1	1.50	20	70	<5	<10	1.69	<5	10	24	31	3.13	<50
2099881		7.54	0.015	1	1.71	<10	80	<5	<10	1.33	<5	11	22	30	3.37	<50
2099882		7.40	0.036	1	1.54	20	80	<5	10	1.43	<5	10	18	35	3.28	<50
2099883		5.08	0.025	1	1.81	30	100	<5	<10	0.55	<5	12	15	33	3.83	<50
2099884		6.44	0.015	1	1.58	30	80	<5	<10	1.62	<5	7	16	28	3.04	<50
2099885		6.14	0.019	1	1.52	30	90	<5	<10	0.35	<5	9	8	28	2.60	<50
2099886		6.22	0.024	1	1.19	<10	50	<5	<10	0.95	<5	8	6	10	2.14	<50
2099887		5.80	0.015	1	1.54	10	60	<5	<10	1.26	<5	10	12	27	2.86	<50
2099888		6.10	0.013	1	1.47	10	70	<5	<10	0.64	<5	11	16	29	3.13	<50
2099889		5.32	0.035	1	1.53	30	80	<5	<10	0.92	<5	9	17	29	3.39	<50
2099890		6.78	0.020	1	1.74	<10	80	<5	<10	0.74	<5	7	8	51	3.38	<50
2099891		5.80	0.004	1	1.73	10	70	<5	<10	0.48	<5	9	8	44	2.83	<50
2099892		6.16	0.002	<1	1.44	10	<50	<5	<10	2.93	<5	5	<5	<5	1.39	<50
2099893		6.36	0.008	<1	1.40	10	<50	<5	<10	1.58	<5	<5	<5	<5	1.42	<50
2099894		5.94	0.017	<1	1.51	<10	<50	<5	<10	2.34	<5	<5	<5	<5	1.37	<50
2099895		6.10	0.012	<1	1.48	<10	<50	<5	<10	2.68	<5	7	<5	10	1.66	<50
2099896		6.52	0.014	<1	1.90	10	<50	<5	<10	1.54	<5	8	6	32	3.23	<50
2099897		6.66	0.014	1	1.49	10	<50	<5	<10	0.73	<5	8	7	26	2.74	<50
2099898		5.72	0.011	1	1.52	10	<50	<5	<10	0.46	<5	8	<5	59	2.93	<50
2099899		6.98	0.006	<1	2.97	20	60	<5	<10	4.61	<5	18	41	60	4.71	<50
2099900		7.02	0.001	<1	4.02	10	70	<5	10	5.55	<5	25	61	48	6.02	<50
2099901		7.44	0.004	<1	3.60	20	<50	<5	<10	5.16	<5	22	59	48	5.81	<50
2099902		7.86	<0.001	<1	3.88	<10	<50	<5	<10	5.06	<5	23	69	32	5.65	<50
2099903		8.06	0.012	<1	3.62	<10	<50	<5	<10	5.12	<5	22	63	37	6.05	<50
2099904		7.36	0.006	<1	3.31	<10	<50	<5	<10	4.56	<5	26	67	103	6.05	<50
2099905		7.94	0.003	<1	3.43	<10	<50	<5	<10	4.76	<5	25	70	49	6.15	<50
2099906		0.76	0.005	<1	3.62	<10	<50	<5	<10	5.25	<5	24	68	41	6.01	<50



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099867		<5	0.56	<50	0.35	400	<5	<0.05	<5	670	<10	0.46	<10	7	24
2099868		<5	0.49	<50	0.42	720	<5	<0.05	<5	490	<10	0.71	<10	6	40
2099869		6	0.30	<50	0.81	290	18	<0.05	60	810	10	1.96	<10	<5	34
2099870		<5	0.23	<50	0.95	1570	<5	<0.05	<5	730	<10	0.69	<10	9	43
2099871		<5	0.36	<50	0.55	920	<5	0.05	<5	790	<10	0.71	10	7	36
2099872		5	0.37	<50	0.55	920	<5	0.05	<5	800	<10	0.70	<10	7	38
2099873		<5	0.29	<50	0.90	1400	<5	0.06	5	860	<10	1.66	<10	12	50
2099874		<5	0.66	<50	0.53	700	<5	<0.05	<5	820	<10	0.74	<10	7	45
2099875		<5	0.17	<50	0.72	420	<5	0.10	8	590	<10	<0.05	<10	6	45
2099876		<5	0.73	<50	0.37	480	<5	<0.05	<5	880	<10	1.59	<10	5	41
2099877		<5	0.86	<50	0.42	810	<5	0.05	5	830	<10	2.30	<10	7	44
2099878		<5	0.95	<50	0.32	400	<5	<0.05	<5	900	<10	2.39	<10	7	34
2099879		<5	0.74	<50	0.31	480	<5	<0.05	<5	660	<10	1.59	<10	6	26
2099880		<5	0.56	<50	0.39	860	<5	<0.05	<5	910	<10	1.01	<10	7	40
2099881		<5	0.71	<50	0.39	690	<5	<0.05	<5	920	<10	0.58	<10	7	51
2099882		6	0.74	<50	0.36	610	<5	<0.05	<5	810	<10	1.19	<10	6	36
2099883		<5	0.81	<50	0.35	370	<5	<0.05	<5	580	10	2.37	<10	6	33
2099884		5	0.67	<50	0.35	600	<5	<0.05	<5	760	<10	1.46	<10	5	44
2099885		<5	0.75	<50	0.39	300	<5	<0.05	<5	400	<10	1.01	<10	5	26
2099886		<5	0.52	<50	0.43	420	<5	<0.05	<5	310	<10	1.20	<10	<5	27
2099887		<5	0.68	<50	0.40	610	<5	<0.05	<5	650	<10	1.28	<10	5	32
2099888		5	0.77	<50	0.34	380	<5	<0.05	<5	860	<10	2.14	<10	6	25
2099889		<5	0.74	<50	0.31	410	<5	<0.05	<5	820	<10	2.29	<10	6	29
2099890		<5	0.63	<50	0.45	550	<5	<0.05	17	250	30	1.49	10	6	28
2099891		<5	0.58	<50	0.49	380	<5	<0.05	10	620	10	0.89	<10	<5	28
2099892		<5	0.44	<50	0.64	740	<5	<0.05	<5	140	<10	0.27	10	<5	47
2099893		<5	0.41	<50	0.67	430	<5	<0.05	<5	220	10	0.29	<10	<5	40
2099894		5	0.44	<50	0.74	490	<5	<0.05	<5	150	<10	0.17	10	<5	48
2099895		<5	0.52	<50	0.59	530	<5	<0.05	7	60	10	0.51	<10	<5	57
2099896		<5	0.58	<50	0.42	480	<5	<0.05	17	140	<10	1.85	10	5	44
2099897		<5	0.39	<50	0.37	410	<5	<0.05	7	150	10	1.70	<10	<5	38
2099898		<5	0.42	<50	0.35	350	<5	<0.05	14	80	<10	2.08	<10	5	41
2099899		<5	0.28	<50	1.05	2280	<5	0.19	37	1350	10	0.90	20	12	164
2099900		<5	0.17	<50	1.77	2200	<5	0.30	42	1720	<10	0.62	<10	18	229
2099901		<5	0.13	<50	1.97	2200	<5	0.17	42	1670	<10	0.45	<10	18	148
2099902		<5	0.06	<50	2.26	2340	<5	0.34	48	1710	30	<0.05	<10	17	219
2099903		<5	0.08	<50	1.82	1690	<5	0.28	42	1640	<10	0.48	10	18	189
2099904		<5	0.11	<50	1.82	1430	<5	0.19	35	1720	<10	0.12	20	18	130
2099905		<5	0.08	<50	1.99	1510	<5	0.24	42	1710	<10	<0.05	20	18	152
2099906		<5	0.12	<50	2.01	1980	<5	0.15	43	1710	<10	<0.05	20	17	109



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099867		0.09	<50	<50	60	<50	50
2099868		0.07	<50	<50	57	<50	30
2099869		<0.05	<50	<50	93	<50	140
2099870		0.14	<50	<50	110	<50	40
2099871		0.14	<50	<50	83	<50	30
2099872		0.14	<50	<50	81	<50	30
2099873		0.22	<50	<50	127	<50	40
2099874		0.09	<50	<50	73	<50	40
2099875		0.20	<50	<50	72	<50	40
2099876		0.09	<50	<50	53	<50	30
2099877		0.13	<50	<50	60	<50	30
2099878		0.13	<50	<50	60	<50	20
2099879		0.07	<50	<50	53	<50	30
2099880		0.11	<50	<50	75	<50	30
2099881		0.12	<50	<50	80	<50	30
2099882		0.08	<50	<50	62	<50	30
2099883		0.05	<50	<50	43	<50	40
2099884		0.07	<50	<50	55	<50	20
2099885		0.07	<50	<50	35	<50	20
2099886		<0.05	<50	<50	27	<50	20
2099887		0.06	<50	<50	44	<50	30
2099888		0.06	<50	<50	49	<50	30
2099889		0.08	<50	<50	51	<50	30
2099890		0.09	<50	<50	31	<50	50
2099891		0.06	<50	<50	29	<50	40
2099892		<0.05	<50	<50	11	<50	30
2099893		<0.05	<50	<50	14	<50	20
2099894		<0.05	<50	<50	13	<50	30
2099895		<0.05	<50	<50	11	<50	30
2099896		<0.05	<50	<50	19	<50	40
2099897		<0.05	<50	<50	21	<50	40
2099898		<0.05	<50	<50	28	<50	60
2099899		0.27	<50	<50	129	<50	60
2099900		0.44	<50	<50	199	<50	60
2099901		0.45	<50	<50	193	<50	60
2099902		0.42	<50	<50	206	<50	80
2099903		0.41	<50	<50	206	<50	60
2099904		0.38	<50	<50	199	<50	60
2099905		0.37	<50	<50	196	<50	70
2099906		0.35	<50	<50	196	<50	60



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099907		6.72	0.367	5	0.59	<10	<50	<5	<10	0.08	<5	<5	<5	<5	0.57	<50
2099908		7.12	0.106	<1	0.68	<10	<50	<5	<10	0.09	<5	<5	<5	<5	0.57	<50
2099909		6.76	0.085	<1	0.76	<10	<50	<5	<10	0.09	<5	<5	<5	<5	0.85	<50
2099910		5.24	0.135	1	0.72	40	50	<5	<10	0.08	<5	<5	<5	<5	1.23	<50
2099911		7.24	0.120	1	0.72	10	<50	<5	<10	0.07	<5	<5	<5	<5	1.42	<50
2099912		7.00	0.362	5	0.64	40	<50	<5	<10	0.06	<5	<5	<5	<5	0.96	<50
2099913		6.70	0.109	1	0.64	30	50	<5	<10	0.05	<5	<5	<5	<5	1.22	<50
2099914		<0.02	0.126	<1	0.64	20	50	<5	<10	0.05	<5	<5	<5	<5	1.21	<50
2099915		6.48	0.312	<1	0.49	20	100	<5	<10	<0.05	<5	<5	<5	<5	1.14	<50
2099916		0.08	0.905	<1	1.76	<10	110	<5	<10	1.15	<5	<5	36	24	2.61	<50
2099917		5.18	0.380	2	0.70	30	70	<5	<10	0.05	<5	<5	<5	<5	1.53	<50
2099918		7.00	0.323	1	0.63	20	<50	<5	<10	0.08	<5	<5	<5	<5	1.40	<50
2099919		7.34	0.293	<1	0.62	40	<50	<5	<10	0.09	<5	<5	<5	<5	1.27	<50
2099920		5.88	0.588	1	0.58	50	<50	<5	<10	0.07	<5	<5	<5	<5	1.30	<50
2099921		7.02	0.109	1	0.61	40	<50	<5	<10	0.06	<5	<5	<5	<5	1.20	<50
2099922		7.00	0.136	<1	0.60	10	50	<5	<10	0.07	<5	<5	<5	<5	1.13	<50
2099923		6.20	0.081	<1	0.64	20	50	<5	<10	0.09	<5	<5	<5	<5	1.37	<50
2099924		0.08	3.88	<1	0.52	720	2880	<5	<10	2.18	<5	<5	24	68	2.76	<50
2099925		7.24	0.035	<1	0.65	<10	<50	<5	<10	0.11	<5	<5	<5	<5	1.30	<50
2099926		6.50	0.087	<1	0.68	20	50	<5	<10	0.09	<5	<5	<5	<5	1.36	<50
2099927		4.80	0.008	<1	0.69	<10	<50	<5	<10	0.12	<5	<5	<5	<5	1.08	<50
2099928		5.46	0.010	<1	0.85	<10	50	<5	<10	0.13	<5	<5	<5	<5	0.91	<50
2099929		4.00	0.015	<1	0.68	<10	<50	<5	<10	0.14	<5	<5	<5	<5	1.19	<50
2099930		4.38	0.008	<1	0.72	<10	50	<5	<10	0.13	<5	<5	<5	<5	0.86	<50
2099931		0.08	0.001	<1	1.83	<10	110	<5	<10	1.17	<5	7	33	14	2.37	<50
2099932		4.96	0.001	<1	0.71	<10	<50	<5	<10	0.14	<5	<5	<5	<5	0.83	<50
2099933		4.82	0.010	<1	0.80	<10	50	<5	<10	0.14	<5	<5	<5	<5	1.35	<50
2099934		5.64	0.010	<1	0.75	<10	50	<5	<10	0.14	<5	<5	<5	<5	1.26	<50
2099935		5.48	0.009	<1	0.75	10	60	<5	<10	0.13	<5	<5	<5	<5	1.42	<50
2099936		5.04	0.005	<1	0.72	<10	50	<5	<10	0.14	<5	<5	<5	<5	1.22	<50
2099937		4.00	0.001	<1	0.69	10	<50	<5	<10	0.15	<5	<5	<5	<5	1.36	<50
2099938		5.86	0.001	<1	0.74	<10	<50	<5	<10	0.16	<5	<5	<5	<5	1.19	<50
2099939		2.44	0.003	<1	0.89	<10	70	<5	<10	0.15	<5	<5	<5	<5	1.21	<50
2099940		1.86	0.001	<1	0.72	<10	50	<5	<10	0.14	<5	<5	<5	<5	0.78	<50
2099941		1.18	0.003	<1	0.74	20	60	<5	<10	0.15	<5	<5	<5	<5	1.25	<50
2099942		1.04	0.001	<1	0.65	<10	60	<5	<10	0.15	<5	<5	<5	<5	0.90	<50
2099943		3.04	0.024	<1	0.80	10	90	<5	<10	0.15	<5	<5	<5	<5	1.61	<50
2099944		5.92	0.011	<1	0.68	<10	50	<5	<10	0.15	<5	<5	<5	<5	1.40	<50
2099945		3.82	0.003	<1	0.78	<10	60	<5	<10	0.16	<5	<5	<5	<5	1.49	<50
2099946		5.36	<0.001	<1	0.80	<10	60	<5	<10	0.16	<5	<5	<5	<5	1.33	<50



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099907		<5	0.50	<50	<0.05	90	<5	<0.05	<5	150	10	<0.05	<10	<5	9
2099908		<5	0.53	<50	0.05	80	<5	<0.05	<5	240	30	<0.05	<10	<5	9
2099909		<5	0.57	<50	0.06	110	<5	<0.05	<5	290	20	<0.05	<10	<5	5
2099910		<5	0.61	<50	<0.05	80	<5	<0.05	<5	400	10	0.05	<10	<5	9
2099911		<5	0.52	<50	<0.05	130	<5	<0.05	<5	390	10	0.05	<10	<5	<5
2099912		<5	0.57	<50	<0.05	100	<5	<0.05	<5	290	<10	0.12	<10	<5	12
2099913		<5	0.51	<50	<0.05	110	<5	<0.05	<5	230	<10	0.31	<10	<5	6
2099914		<5	0.49	<50	<0.05	110	<5	<0.05	<5	250	<10	0.31	10	<5	8
2099915		<5	0.44	<50	<0.05	130	<5	<0.05	<5	260	10	0.15	10	<5	14
2099916		<5	0.17	<50	0.76	460	<5	0.07	21	610	<10	<0.05	10	6	48
2099917		<5	0.42	<50	0.05	200	<5	<0.05	<5	380	<10	0.11	<10	<5	9
2099918		5	0.46	<50	<0.05	200	<5	<0.05	<5	390	<10	0.54	<10	<5	5
2099919		<5	0.44	<50	<0.05	280	<5	<0.05	<5	320	<10	0.59	10	<5	<5
2099920		<5	0.42	<50	<0.05	280	<5	<0.05	<5	310	<10	0.51	<10	<5	<5
2099921		<5	0.44	<50	<0.05	220	<5	<0.05	<5	320	10	0.27	10	<5	<5
2099922		<5	0.46	<50	<0.05	180	<5	<0.05	<5	350	10	0.21	30	<5	7
2099923		<5	0.47	50	<0.05	250	<5	<0.05	<5	400	10	0.37	<10	<5	7
2099924		6	0.30	<50	0.86	310	26	<0.05	71	860	20	1.99	10	<5	37
2099925		<5	0.47	50	0.06	600	<5	<0.05	<5	380	<10	0.25	10	<5	6
2099926		<5	0.53	<50	0.05	350	<5	<0.05	<5	340	10	0.24	<10	<5	5
2099927		<5	0.57	50	0.05	340	<5	<0.05	<5	370	<10	0.12	<10	<5	7
2099928		<5	0.65	50	0.08	460	<5	<0.05	<5	370	<10	0.17	<10	<5	8
2099929		<5	0.50	50	0.06	410	<5	<0.05	<5	450	10	0.08	<10	<5	8
2099930		<5	0.58	50	0.05	290	<5	<0.05	<5	370	<10	0.05	<10	<5	7
2099931		<5	0.17	<50	0.77	450	<5	0.09	15	590	<10	<0.05	10	6	49
2099932		<5	0.58	50	0.07	400	<5	<0.05	<5	440	<10	<0.05	10	<5	5
2099933		<5	0.55	<50	0.10	830	<5	<0.05	<5	390	10	0.19	<10	<5	6
2099934		<5	0.52	50	0.10	720	<5	<0.05	<5	460	<10	0.16	10	<5	<5
2099935		6	0.53	<50	0.09	570	<5	<0.05	<5	400	<10	0.39	10	<5	6
2099936		<5	0.50	50	0.09	620	<5	<0.05	<5	450	10	0.12	10	<5	12
2099937		<5	0.48	50	0.08	600	<5	<0.05	<5	480	<10	<0.05	10	<5	7
2099938		<5	0.53	50	0.09	700	<5	<0.05	<5	470	10	<0.05	10	<5	9
2099939		<5	0.67	<50	0.10	930	<5	<0.05	<5	410	10	<0.05	10	<5	14
2099940		<5	0.58	50	0.06	390	<5	<0.05	<5	400	<10	<0.05	10	<5	16
2099941		<5	0.57	50	0.08	570	<5	<0.05	<5	460	10	<0.05	<10	<5	12
2099942		<5	0.54	50	0.07	690	<5	<0.05	<5	400	10	<0.05	10	<5	14
2099943		<5	0.61	50	0.09	1720	<5	<0.05	<5	430	10	0.16	20	<5	17
2099944		<5	0.54	50	0.07	990	<5	<0.05	<5	510	10	0.12	10	<5	12
2099945		<5	0.58	50	0.09	1340	<5	<0.05	<5	520	10	0.09	10	<5	20
2099946		<5	0.62	50	0.09	990	<5	<0.05	<5	510	10	<0.05	<10	<5	19



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099907		<0.05	<50	<50	9	<50	20
2099908		<0.05	<50	<50	8	<50	30
2099909		<0.05	<50	<50	7	<50	40
2099910		<0.05	<50	<50	10	<50	40
2099911		<0.05	<50	<50	11	<50	60
2099912		<0.05	<50	<50	9	<50	30
2099913		<0.05	<50	<50	9	<50	40
2099914		<0.05	<50	<50	9	<50	40
2099915		<0.05	<50	<50	8	<50	30
2099916		0.21	<50	<50	76	<50	50
2099917		<0.05	<50	<50	9	<50	60
2099918		<0.05	<50	<50	8	<50	80
2099919		<0.05	<50	<50	8	<50	90
2099920		<0.05	<50	<50	7	<50	80
2099921		<0.05	<50	<50	8	<50	80
2099922		<0.05	<50	<50	8	<50	80
2099923		<0.05	<50	<50	9	<50	90
2099924		<0.05	<50	<50	94	<50	140
2099925		<0.05	<50	<50	8	<50	110
2099926		<0.05	<50	<50	9	<50	100
2099927		<0.05	<50	<50	6	<50	70
2099928		<0.05	<50	<50	6	<50	100
2099929		<0.05	<50	<50	6	<50	120
2099930		<0.05	<50	<50	7	<50	70
2099931		0.22	<50	<50	76	<50	40
2099932		<0.05	<50	<50	<5	<50	80
2099933		<0.05	<50	<50	7	<50	140
2099934		<0.05	<50	<50	6	<50	130
2099935		<0.05	<50	<50	8	<50	130
2099936		<0.05	<50	<50	6	<50	100
2099937		<0.05	<50	<50	5	<50	80
2099938		<0.05	<50	<50	5	<50	80
2099939		<0.05	<50	<50	5	<50	80
2099940		<0.05	<50	<50	5	<50	50
2099941		<0.05	<50	<50	6	<50	60
2099942		0.05	<50	<50	<5	<50	60
2099943		0.10	<50	<50	7	<50	190
2099944		0.06	<50	<50	5	<50	100
2099945		0.07	<50	<50	7	<50	90
2099946		<0.05	<50	<50	<5	<50	110



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099947		5.12	0.003	<1	0.75	<10	60	<5	<10	0.16	<5	<5	<5	<5	1.49	<50
2099948		5.18	0.003	<1	0.83	<10	60	<5	<10	0.19	<5	<5	<5	<5	0.87	<50
2099949		5.90	0.010	<1	0.84	10	1250	<5	<10	0.26	<5	<5	<5	10	1.92	<50
2099950		6.72	<0.001	<1	0.85	<10	180	<5	<10	0.19	<5	<5	<5	<5	0.98	<50
2099951		6.02	0.004	<1	0.74	<10	440	<5	<10	0.19	<5	<5	<5	<5	1.17	<50
2099952		1.02	0.170	2	1.45	40	70	<5	<10	0.40	<5	<5	<5	<5	3.86	<50
2099953		2.70	0.120	<1	1.23	30	80	<5	<10	0.33	<5	<5	<5	<5	3.00	<50
2099954		3.92	0.306	1	1.06	30	90	<5	<10	0.18	<5	<5	<5	<5	1.67	<50
2099955		1.36	0.229	<1	0.55	10	50	<5	<10	0.09	<5	<5	<5	<5	1.38	<50
2099956		1.52	0.076	<1	0.89	20	60	<5	<10	0.17	<5	<5	<5	<5	1.76	<50
2099957		3.46	0.053	<1	0.98	<10	60	<5	<10	0.18	<5	<5	<5	<5	1.96	<50
2099958		5.78	0.132	1	0.79	40	60	<5	<10	0.13	<5	<5	5	<5	1.99	<50
2099959		6.28	0.105	1	0.63	40	<50	<5	<10	0.10	<5	<5	<5	<5	1.11	<50
2099960		0.08	0.003	<1	1.78	<10	110	<5	10	1.15	<5	5	30	12	2.31	<50
2099961		4.16	0.148	1	0.63	50	<50	<5	<10	0.11	<5	<5	5	<5	1.22	<50
2099962		6.04	0.751	3	0.56	70	<50	<5	10	0.10	<5	<5	<5	<5	1.35	<50
2099963		<0.02	0.741	2	0.57	70	<50	<5	<10	0.10	<5	<5	<5	<5	1.36	<50
2099964		5.34	1.200	5	0.68	70	<50	<5	<10	0.11	<5	<5	9	<5	1.38	<50
2099965		0.08	3.82	1	0.48	680	2770	<5	<10	2.05	<5	6	22	64	2.83	<50
2099966		5.30	0.255	2	0.57	30	50	<5	<10	0.09	<5	<5	<5	<5	1.32	<50
2099967		6.36	0.699	4	0.64	60	50	<5	<10	0.11	<5	<5	6	<5	1.30	<50
2099968		7.56	0.240	1	0.62	40	50	<5	<10	0.12	<5	<5	<5	<5	1.03	<50
2099969		0.08	0.815	<1	1.65	<10	110	<5	<10	1.02	<5	9	32	24	2.65	<50
2099970		5.54	0.052	1	0.84	40	50	<5	<10	0.15	<5	<5	<5	<5	0.87	<50
2099971		4.86	0.071	15	0.82	20	50	<5	<10	0.19	<5	6	8	74	1.77	<50
2099972		6.18	0.044	17	0.73	40	50	<5	<10	0.15	<5	<5	5	92	1.87	<50
2099973		5.60	0.030	<1	0.82	<10	<50	<5	<10	0.18	<5	<5	<5	<5	1.73	<50
2099974		5.16	0.028	1	0.90	50	50	<5	<10	0.20	<5	<5	<5	10	2.18	<50
2099975		2.64	0.025	<1	0.63	30	50	<5	<10	0.11	<5	<5	<5	<5	1.37	<50
2099976		5.00	0.022	<1	0.64	30	60	<5	<10	0.11	<5	<5	16	<5	1.31	<50
2099977		6.64	0.062	1	0.75	20	140	<5	<10	0.11	<5	<5	<5	<5	1.32	<50
2099978		5.00	0.049	1	0.69	20	60	<5	<10	0.11	<5	<5	<5	<5	1.39	<50
2099979		3.54	0.035	1	0.57	40	110	<5	<10	0.10	<5	<5	<5	<5	1.56	<50
2099980		6.66	0.193	1	0.72	40	60	<5	<10	0.11	<5	<5	<5	<5	1.34	<50
2099981		4.50	0.122	1	0.66	60	70	<5	<10	0.09	<5	<5	<5	<5	1.55	<50
2099982		5.42	0.096	1	0.59	70	70	<5	<10	0.08	<5	<5	<5	7	1.36	<50
2099983		3.98	0.084	1	0.64	140	70	<5	<10	0.08	<5	<5	<5	<5	1.56	<50
2099984		5.10	0.083	1	0.65	150	60	<5	<10	0.10	<5	<5	<5	<5	1.42	<50
2099985		3.08	0.126	2	0.75	190	50	<5	<10	0.10	<5	<5	<5	<5	1.99	<50
2099986		4.72	0.084	1	0.68	90	50	<5	<10	0.10	<5	<5	<5	<5	1.02	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099947		<5	0.58	50	0.08	1530	<5	<0.05	<5	510	<10	0.12	<10	<5	19
2099948		<5	0.73	<50	0.05	590	<5	<0.05	<5	470	<10	0.10	10	<5	28
2099949		<5	0.74	<50	<0.05	640	<5	<0.05	<5	690	30	0.06	30	<5	40
2099950		<5	0.66	<50	0.06	420	<5	<0.05	<5	440	10	<0.05	<10	<5	25
2099951		<5	0.53	50	0.09	570	<5	<0.05	<5	510	10	<0.05	<10	<5	23
2099952		<5	0.50	<50	0.24	1440	<5	<0.05	<5	1120	30	2.21	10	6	13
2099953		<5	0.47	<50	0.20	1170	<5	<0.05	<5	960	30	1.53	20	5	9
2099954		<5	0.61	<50	0.14	360	<5	<0.05	<5	490	20	0.96	<10	<5	8
2099955		<5	0.39	<50	0.06	80	<5	<0.05	<5	420	10	0.66	<10	<5	16
2099956		5	0.43	<50	0.14	380	<5	<0.05	<5	510	10	0.70	10	<5	12
2099957		<5	0.53	<50	0.16	540	<5	<0.05	<5	440	10	0.75	<10	<5	17
2099958		<5	0.50	<50	0.12	340	<5	<0.05	<5	430	10	1.23	20	<5	22
2099959		<5	0.51	<50	0.05	120	<5	<0.05	<5	370	<10	0.54	10	<5	8
2099960		<5	0.17	<50	0.75	440	<5	0.08	12	580	<10	<0.05	10	6	48
2099961		<5	0.49	<50	0.05	150	<5	<0.05	<5	330	10	0.72	20	<5	6
2099962		<5	0.42	<50	0.05	190	<5	0.05	<5	360	20	0.80	<10	<5	8
2099963		<5	0.43	<50	0.06	190	<5	0.05	<5	370	10	0.79	10	<5	8
2099964		<5	0.48	<50	0.06	200	<5	0.06	<5	370	<10	0.76	<10	<5	10
2099965		9	0.29	<50	0.78	290	19	<0.05	62	800	10	1.91	20	<5	39
2099966		<5	0.43	<50	<0.05	120	<5	0.06	<5	310	<10	0.54	<10	<5	8
2099967		<5	0.46	<50	0.07	250	<5	0.06	<5	360	<10	0.61	10	<5	10
2099968		<5	0.45	<50	0.06	310	<5	0.05	<5	350	<10	0.53	10	<5	11
2099969		<5	0.16	<50	0.68	420	<5	0.14	19	560	<10	<0.05	10	6	48
2099970		<5	0.58	<50	0.11	390	<5	<0.05	<5	370	<10	0.30	10	<5	15
2099971		<5	0.52	<50	0.13	460	<5	0.05	18	500	10	0.65	20	<5	16
2099972		<5	0.45	<50	0.12	490	<5	0.07	20	450	10	1.08	20	<5	13
2099973		<5	0.49	<50	0.16	720	<5	0.07	<5	540	10	1.07	10	<5	14
2099974		<5	0.55	<50	0.12	580	<5	0.05	<5	540	30	1.47	10	<5	16
2099975		<5	0.43	<50	0.06	130	<5	0.06	<5	390	<10	0.21	<10	<5	10
2099976		<5	0.45	<50	0.05	150	<5	0.06	<5	380	10	0.54	20	<5	11
2099977		<5	0.47	<50	0.06	190	<5	0.06	<5	400	10	0.24	<10	<5	12
2099978		<5	0.42	<50	0.06	180	<5	0.07	<5	400	10	0.40	10	<5	9
2099979		<5	0.37	<50	0.06	240	<5	0.07	<5	360	10	0.85	<10	<5	11
2099980		<5	0.42	<50	0.07	270	<5	0.08	<5	410	10	0.54	<10	<5	11
2099981		<5	0.42	<50	0.07	300	<5	0.07	<5	370	10	0.83	<10	<5	12
2099982		<5	0.40	<50	0.06	270	<5	<0.05	<5	300	50	0.87	10	<5	10
2099983		<5	0.41	<50	<0.05	140	<5	0.05	<5	390	20	0.65	<10	<5	12
2099984		<5	0.41	<50	0.06	230	<5	0.06	<5	420	20	0.86	10	<5	12
2099985		<5	0.47	<50	0.05	190	<5	0.06	<5	430	20	1.04	10	<5	13
2099986		<5	0.47	<50	0.05	150	<5	<0.05	<5	330	<10	0.58	<10	<5	11



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099947		0.08	<50	<50	5	<50	90
2099948		<0.05	<50	<50	<5	<50	30
2099949		<0.05	<50	<50	12	<50	50
2099950		<0.05	<50	<50	5	<50	60
2099951		<0.05	<50	<50	5	<50	60
2099952		<0.05	<50	<50	76	<50	90
2099953		<0.05	<50	<50	59	<50	120
2099954		<0.05	<50	<50	19	<50	130
2099955		<0.05	<50	<50	9	<50	40
2099956		<0.05	<50	<50	15	<50	60
2099957		<0.05	<50	<50	18	<50	80
2099958		<0.05	<50	<50	12	<50	80
2099959		<0.05	<50	<50	7	<50	60
2099960		0.21	<50	<50	73	<50	40
2099961		<0.05	<50	<50	7	<50	80
2099962		<0.05	<50	<50	<5	<50	90
2099963		<0.05	<50	<50	<5	<50	80
2099964		<0.05	<50	<50	6	<50	80
2099965		<0.05	<50	<50	85	<50	130
2099966		<0.05	<50	<50	5	<50	70
2099967		<0.05	<50	<50	7	<50	80
2099968		<0.05	<50	<50	6	<50	60
2099969		0.19	<50	<50	67	<50	40
2099970		<0.05	<50	<50	<5	<50	50
2099971		<0.05	<50	<50	13	310	110
2099972		<0.05	<50	<50	11	370	90
2099973		<0.05	<50	<50	6	<50	110
2099974		<0.05	<50	<50	11	<50	130
2099975		<0.05	<50	<50	7	<50	70
2099976		<0.05	<50	<50	7	<50	80
2099977		<0.05	<50	<50	6	<50	100
2099978		<0.05	<50	<50	<5	<50	90
2099979		<0.05	<50	<50	<5	<50	90
2099980		<0.05	<50	<50	<5	<50	110
2099981		<0.05	<50	<50	5	<50	120
2099982		<0.05	<50	<50	<5	<50	100
2099983		<0.05	<50	<50	6	<50	100
2099984		<0.05	<50	<50	6	<50	160
2099985		<0.05	<50	<50	<5	<50	180
2099986		<0.05	<50	<50	<5	<50	70



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2099987		0.88	0.057	1	0.67	70	110	<5	<10	0.09	<5	<5	<5	<5	1.29	<50
2099988		4.02	0.068	1	0.75	90	<50	<5	<10	0.10	<5	<5	<5	5	1.10	<50
2099989		6.52	0.091	<1	0.78	40	<50	<5	<10	0.09	<5	<5	<5	<5	0.77	<50
2099990		5.78	0.118	1	0.80	50	<50	<5	10	0.11	<5	<5	<5	26	0.75	<50
2099991		5.28	0.057	<1	0.88	40	<50	<5	10	0.11	<5	<5	<5	<5	0.77	<50
2099992		4.20	0.034	<1	0.73	30	50	<5	<10	0.06	<5	<5	<5	<5	0.61	<50
2099993		4.12	0.056	1	1.56	60	50	<5	<10	0.28	<5	9	6	6	2.09	<50
2099994		4.18	0.011	<1	2.99	50	130	<5	<10	1.43	<5	23	12	50	5.81	<50
2099995		5.20	0.008	<1	3.14	<10	120	<5	<10	3.20	<5	19	11	53	5.09	<50
2099996		6.32	0.006	<1	2.82	10	140	<5	<10	2.26	<5	18	11	64	4.58	<50
2099997		5.32	0.001	<1	2.80	10	260	<5	<10	3.10	<5	18	11	75	5.16	<50
2099998		2.98	0.104	2	0.94	40	<50	<5	<10	4.24	<5	8	<5	34	2.92	<50
2099999		6.20	1.685	11	0.81	90	<50	<5	<10	2.94	<5	6	6	7	2.88	<50
2100000		5.68	0.160	1	1.14	50	<50	<5	<10	2.91	<5	6	5	5	3.05	<50
2100001		5.66	0.031	1	1.41	40	<50	<5	<10	2.61	<5	8	<5	13	3.25	<50
2100002		5.96	0.040	<1	1.56	<10	50	<5	<10	1.26	<5	9	<5	13	3.25	<50
2100003		5.68	0.014	<1	1.85	<10	50	<5	<10	1.95	<5	9	7	21	3.49	<50
2100004		5.72	0.003	<1	1.90	20	60	<5	<10	1.09	<5	10	5	22	3.18	<50
2100005		5.48	0.009	<1	1.58	<10	50	<5	<10	0.82	<5	13	<5	20	2.97	<50
2100006		4.52	0.151	1	1.24	<10	<50	<5	<10	2.32	<5	12	5	<5	2.85	<50
2100007		2.36	0.298	6	0.82	30	<50	<5	<10	2.09	<5	9	8	5	2.79	<50
2100008		0.08	0.996	<1	1.71	<10	110	<5	<10	1.10	<5	9	34	20	2.74	<50
2100009		2.06	0.221	3	0.81	20	<50	<5	<10	0.75	<5	11	7	7	2.76	<50
2100010		<0.02	0.242	5	0.87	10	<50	<5	<10	0.78	<5	8	7	7	2.91	<50
2100011		2.04	0.120	1	1.05	10	<50	<5	<10	0.96	<5	9	7	<5	3.07	<50
2100012		4.54	0.080	1	0.84	10	<50	<5	<10	0.50	<5	11	8	9	2.73	<50
2100013		1.32	0.101	1	0.96	40	<50	<5	<10	0.81	<5	10	6	6	2.90	<50
2100014		1.02	0.202	2	1.04	40	<50	<5	<10	0.74	<5	10	6	8	2.90	<50
2100015		4.22	0.104	2	0.73	10	<50	<5	<10	1.78	<5	<5	8	15	2.92	<50
2100016		3.06	0.039	1	1.29	10	<50	<5	<10	0.44	<5	11	8	9	3.14	<50
2100017		3.28	0.042	<1	1.28	20	<50	<5	<10	0.53	<5	12	5	8	3.18	<50
2100018		4.10	0.212	1	1.13	30	<50	<5	<10	0.66	<5	12	11	11	3.24	<50
2100019		3.24	0.091	1	1.10	20	<50	<5	10	0.56	<5	11	16	21	3.26	<50
2100020		4.32	0.473	3	1.06	20	<50	<5	<10	0.58	<5	11	8	8	3.29	<50
2100021		3.88	0.079	1	1.40	30	<50	<5	<10	1.21	<5	16	7	16	3.61	<50
2100022		5.22	0.090	2	2.10	50	<50	<5	<10	2.07	<5	23	16	36	4.90	<50
2100023		6.46	0.108	2	1.94	50	<50	<5	<10	4.68	<5	19	15	41	4.74	<50
2100024		6.06	0.059	1	1.43	50	<50	<5	<10	3.18	<5	10	10	30	3.65	<50
2100025		5.40	0.092	1	0.95	90	<50	<5	<10	8.28	<5	13	15	30	3.77	<50
2100026		4.88	0.133	1	2.01	130	<50	<5	<10	4.66	<5	20	16	46	5.08	<50



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Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5
2099987		<5	0.45	<50	0.06	170	<5	0.05	<5	360	10	0.39	<10	<5	10
2099988		<5	0.49	<50	0.08	190	<5	<0.05	<5	290	<10	0.66	<10	<5	10
2099989		<5	0.47	<50	0.09	270	<5	<0.05	<5	260	<10	0.32	<10	<5	9
2099990		<5	0.52	<50	0.08	150	5	<0.05	<5	330	<10	0.48	<10	<5	13
2099991		<5	0.58	<50	0.09	250	<5	<0.05	<5	310	10	0.40	10	<5	15
2099992		<5	0.54	<50	<0.05	80	<5	<0.05	<5	140	20	0.21	10	<5	13
2099993		<5	0.62	<50	0.44	630	<5	<0.05	<5	690	10	0.79	10	<5	36
2099994		<5	0.47	<50	1.39	1280	<5	0.06	<5	1610	<10	1.12	10	8	100
2099995		<5	0.39	<50	1.52	1700	<5	0.08	<5	1750	<10	<0.05	10	8	194
2099996		<5	0.38	<50	1.24	1200	<5	0.09	<5	1720	<10	<0.05	<10	9	140
2099997		5	0.41	<50	1.32	1360	<5	0.06	<5	1770	<10	0.07	10	9	130
2099998		<5	0.28	<50	0.48	1560	<5	<0.05	13	950	30	0.67	<10	6	47
2099999		<5	0.17	<50	0.51	760	<5	<0.05	<5	820	<10	1.54	<10	6	47
2100000		<5	0.22	<50	0.59	860	<5	<0.05	<5	860	<10	1.43	<10	6	52
2100001		<5	0.53	<50	0.41	720	<5	<0.05	<5	200	10	1.60	<10	<5	88
2100002		<5	0.55	<50	0.48	740	<5	<0.05	<5	150	10	0.98	<10	<5	42
2100003		<5	0.59	<50	0.48	660	<5	<0.05	<5	490	10	0.22	<10	<5	62
2100004		<5	0.63	<50	0.51	590	<5	<0.05	<5	150	<10	0.58	<10	<5	43
2100005		<5	0.63	<50	0.55	570	<5	<0.05	<5	130	<10	0.34	<10	<5	38
2100006		<5	0.17	<50	0.82	930	<5	<0.05	<5	870	<10	0.67	<10	6	39
2100007		<5	0.26	<50	0.54	780	<5	<0.05	<5	810	10	0.71	<10	6	30
2100008		<5	0.17	<50	0.70	440	<5	0.09	15	560	<10	<0.05	<10	6	50
2100009		<5	0.19	<50	0.52	760	<5	<0.05	<5	910	<10	0.38	<10	6	21
2100010		<5	0.22	<50	0.53	780	<5	<0.05	<5	960	10	0.41	<10	7	23
2100011		<5	0.29	<50	0.56	1200	<5	<0.05	<5	910	<10	0.52	<10	7	23
2100012		<5	0.23	<50	0.52	660	<5	<0.05	<5	790	<10	0.62	<10	6	16
2100013		<5	0.21	<50	0.60	920	<5	<0.05	<5	1090	10	0.88	<10	6	17
2100014		<5	0.25	<50	0.61	710	<5	<0.05	<5	2340	10	1.08	<10	5	21
2100015		<5	0.20	<50	0.44	830	<5	<0.05	<5	930	10	0.40	10	6	32
2100016		<5	0.40	<50	0.68	850	<5	<0.05	<5	1030	10	0.70	<10	7	21
2100017		<5	0.33	<50	0.78	920	<5	<0.05	<5	1140	10	0.71	10	7	23
2100018		<5	0.25	<50	0.79	810	<5	<0.05	<5	1060	10	0.80	<10	6	15
2100019		<5	0.16	<50	0.88	880	<5	<0.05	<5	1170	30	0.83	<10	7	11
2100020		<5	0.24	<50	0.80	990	<5	<0.05	<5	1420	<10	0.73	<10	6	17
2100021		<5	0.11	<50	1.23	1340	<5	<0.05	<5	1230	10	0.81	<10	8	17
2100022		<5	0.11	<50	2.05	1570	<5	<0.05	10	960	<10	1.13	<10	14	28
2100023		<5	0.10	<50	1.99	1510	<5	<0.05	13	890	<10	1.21	<10	13	102
2100024		<5	0.29	<50	1.00	1240	<5	<0.05	<5	790	<10	1.08	10	8	44
2100025		<5	0.11	<50	0.88	1440	<5	<0.05	<5	650	<10	1.07	<10	10	227
2100026		<5	0.15	<50	1.97	1440	<5	<0.05	5	1060	10	2.32	10	11	83



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2099987		<0.05	<50	<50	7	<50	90
2099988		<0.05	<50	<50	5	<50	100
2099989		<0.05	<50	<50	6	<50	90
2099990		<0.05	<50	<50	6	<50	110
2099991		<0.05	<50	<50	<5	<50	120
2099992		<0.05	<50	<50	<5	<50	50
2099993		<0.05	<50	<50	31	<50	110
2099994		0.05	<50	<50	100	<50	100
2099995		0.17	<50	<50	135	<50	60
2099996		0.21	<50	<50	117	<50	50
2099997		0.20	<50	<50	128	<50	50
2099998		0.15	<50	<50	59	<50	60
2099999		0.15	<50	<50	53	<50	50
2100000		0.12	<50	<50	50	<50	50
2100001		<0.05	<50	<50	23	<50	40
2100002		<0.05	<50	<50	27	<50	40
2100003		0.08	<50	<50	52	<50	50
2100004		<0.05	<50	<50	23	<50	40
2100005		<0.05	<50	<50	21	<50	40
2100006		0.09	<50	<50	53	<50	50
2100007		0.11	<50	<50	53	<50	60
2100008		0.20	<50	<50	71	<50	50
2100009		0.13	<50	<50	57	<50	60
2100010		0.13	<50	<50	61	<50	60
2100011		0.15	<50	<50	62	<50	70
2100012		0.11	<50	<50	47	<50	60
2100013		0.11	<50	<50	54	<50	70
2100014		0.08	<50	<50	55	<50	60
2100015		0.15	<50	<50	63	<50	60
2100016		0.09	<50	<50	59	<50	80
2100017		0.10	<50	<50	54	<50	70
2100018		0.08	<50	<50	55	<50	50
2100019		0.09	<50	<50	62	<50	70
2100020		0.12	<50	<50	69	<50	100
2100021		0.08	<50	<50	77	<50	70
2100022		<0.05	<50	<50	121	<50	50
2100023		<0.05	<50	<50	109	<50	50
2100024		0.05	<50	<50	74	<50	40
2100025		0.11	<50	<50	85	<50	40
2100026		0.05	<50	<50	113	<50	50



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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41a Ag ppm	ME- ICP41a Al %	ME- ICP41a As ppm	ME- ICP41a Ba ppm	ME- ICP41a Be ppm	ME- ICP41a Bi ppm	ME- ICP41a Ca %	ME- ICP41a Cd ppm	ME- ICP41a Co ppm	ME- ICP41a Cr ppm	ME- ICP41a Cu ppm	ME- ICP41a Fe %	ME- ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
2100027		5.48	0.116	<1	1.75	120	<50	<5	<10	5.19	<5	18	17	40	4.67	<50
2100028		5.80	0.049	<1	1.77	70	<50	<5	<10	4.33	<5	21	20	27	4.95	<50
2100029		5.52	0.098	1	1.27	60	<50	<5	<10	5.37	<5	14	14	29	3.76	<50
2100030		4.48	0.136	2	1.05	40	<50	<5	<10	1.78	<5	9	11	20	2.59	<50
2100031		5.70	0.254	2	1.24	30	70	<5	<10	1.71	<5	6	<5	14	2.44	<50
2100032		5.26	0.180	1	1.13	40	60	<5	<10	2.03	<5	<5	<5	20	2.34	<50
2100033		4.26	0.081	1	0.84	30	50	<5	<10	5.78	<5	5	10	5	1.84	<50
2100034		0.08	0.002	1	1.72	<10	110	<5	<10	1.11	<5	8	30	13	2.47	<50
2100035		5.38	0.032	1	0.31	30	<50	<5	<10	6.84	<5	<5	6	<5	0.90	<50
2100036		6.30	0.044	2	0.53	40	<50	<5	<10	4.37	<5	<5	14	6	1.43	<50
2100037		5.64	0.007	<1	0.80	30	60	<5	<10	1.23	<5	<5	<5	<5	1.35	<50
2100038		0.08	3.78	2	0.50	730	2870	<5	<10	2.19	<5	5	24	67	2.98	<50
2100039		5.66	0.013	1	0.82	30	80	<5	<10	3.48	<5	<5	8	<5	1.59	<50
2100040		6.46	0.002	<1	1.12	10	270	<5	<10	4.52	<5	<5	<5	<5	2.39	<50
2100041		7.06	0.001	<1	1.13	<10	110	<5	<10	4.26	<5	7	7	15	1.99	<50
2100042		7.48	<0.001	<1	1.06	<10	450	<5	<10	3.47	<5	<5	<5	6	2.23	<50
2100043		7.04	0.001	<1	0.92	20	1170	<5	<10	4.28	<5	<5	<5	8	2.16	<50
2100044		6.86	0.001	<1	0.91	<10	360	<5	<10	4.19	<5	<5	<5	<5	2.21	<50
2100045		6.60	0.001	<1	1.04	10	200	<5	<10	2.96	<5	<5	<5	5	2.65	<50
2100046		6.86	0.002	<1	1.27	10	1040	<5	<10	4.73	<5	7	9	18	3.13	<50
2100047		6.80	0.001	<1	1.20	<10	80	<5	<10	2.68	<5	6	8	9	1.93	<50
2100048		6.00	<0.001	<1	1.12	<10	90	<5	<10	1.78	<5	6	7	11	1.67	<50
2100049		7.34	0.001	<1	1.07	<10	370	<5	<10	1.60	<5	<5	<5	<5	1.10	<50
2100050		6.42	0.003	<1	1.44	<10	120	<5	<10	1.64	<5	<5	<5	13	2.02	<50
2100051		7.00	0.001	<1	1.75	10	80	<5	<10	2.52	<5	<5	<5	<5	3.21	<50
2100052		6.06	<0.001	<1	1.68	<10	90	<5	<10	2.21	<5	<5	<5	<5	2.71	<50
2100053		6.76	<0.001	<1	1.49	<10	110	<5	<10	1.44	<5	<5	<5	<5	1.72	<50
2100054		6.56	0.001	<1	1.87	<10	140	<5	<10	2.86	<5	7	<5	28	2.72	<50
2100055		6.74	0.001	<1	1.10	<10	80	<5	<10	2.40	<5	<5	<5	9	1.72	<50
2100056		7.32	0.002	<1	1.22	<10	90	<5	<10	0.28	<5	8	<5	13	1.98	<50

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CERTIFICATE OF ANALYSIS VA13029639

Sample Description	Method Analyte Units LOR	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a	ME- ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
2100027		0.08	<50	<50	111	<50	50
2100028		0.07	<50	<50	122	<50	50
2100029		0.05	<50	<50	82	<50	40
2100030		<0.05	<50	<50	42	<50	40
2100031		<0.05	<50	<50	32	<50	50
2100032		<0.05	<50	<50	35	<50	40
2100033		<0.05	<50	<50	18	<50	50
2100034		0.21	<50	<50	68	<50	40
2100035		<0.05	<50	<50	<5	<50	150
2100036		<0.05	<50	<50	12	<50	30
2100037		<0.05	<50	<50	6	<50	80
2100038		<0.05	<50	<50	89	<50	140
2100039		<0.05	<50	<50	17	<50	30
2100040		<0.05	<50	<50	38	<50	40
2100041		<0.05	<50	<50	33	<50	20
2100042		<0.05	<50	<50	41	<50	30
2100043		<0.05	<50	<50	37	<50	20
2100044		<0.05	<50	<50	32	<50	40
2100045		<0.05	<50	<50	62	<50	30
2100046		0.05	<50	<50	54	<50	30
2100047		<0.05	<50	<50	28	<50	40
2100048		<0.05	<50	<50	21	<50	20
2100049		<0.05	<50	<50	6	<50	40
2100050		<0.05	<50	<50	6	<50	110
2100051		<0.05	<50	<50	6	<50	210
2100052		<0.05	<50	<50	7	<50	190
2100053		<0.05	<50	<50	8	<50	140
2100054		<0.05	<50	<50	23	<50	370
2100055		<0.05	<50	<50	8	<50	140
2100056		<0.05	<50	<50	6	<50	210

APPENDIX VI Induced polarization survey 2012 (field report and 3D sections)

LOGISTICS REPORT PREPARED

FOR

VENERABLE VENTURES LTD.

INDUCED POLARIZATION SURVEY

ON THE

TROUT PROPERTY

VANDERHOOF, BC, CANADA

LATITUDE: N53° 40' LONGITUDE: W124° 44'

BCGS SHEET: 093F67

NTS SHEET: 093F10

MINING DIVISION: Omineca

SURVEY CONDUCTED BY SJ GEOPHYSICS LTD.

MAY 2012 – JUNE 2012

REPORT PREPARED BY

JAY ENNS

JUNE 2012

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1. SURVEY SUMMARY

SJ Geophysics Ltd. was contracted by Venerable Ventures Ltd. to acquire geophysical data on their Trout property. The following table provides a brief summary of the project.

Client	Venerable Ventures Ltd.
Project Name	Trout Property
Location (approx. center of grid)	Latitude: N53° 40' Longitude: W124° 44' 385200E 5947400N; UTM Datum: NAD83 Zone 10
Survey Type	3D Induced Polarization (3DIP) & 2D Induced Polarization (2DIP)
Total Line Kilometers	2DIP: 8.15 km 3DIP: 78.075 km
Production Dates	May 5 – June 6, 2012
Objective	SJ Geophysics was contracted to carry out 2DIP and 3DIP surveys to explore epithermal gold mineralization under a local basalt cap on the Trout Property.

Table 1: Survey Summary

This logistics report summarizes the operational aspects and methodologies of the geophysical survey. This report does not discuss or interpret the survey results.

2. LOCATION, ACCESS, AND FIELD CONDITIONS

The Trout Property project is located in the Nechako region of British Columbia, Canada (Figure 1). The closest major town to the survey area is Vanderhoof, which is approximately 80 km NE of the Trout Property. The crew accommodations at Nechako lodge can be accessed from Vanderhoof by the following directions:

- In Vanderhoof, drive south on Chilco avenue followed by a right onto 7th street. Then turn left onto Nechako avenue and take Kenny Dam road. Continue following Kenny Dam road until arriving at Nechako lodge. There are a few road signs along the way indicating distance and direction to the lodge. In all the drive is approximately 95 kilometers.

To access the grid from Nechako lodge:

- Begin by driving back towards Vanderhoof on Kenny Dam road for approximately 25 km.

Turn right onto Swanson road, drive for another approximately 10 km. (Figure 2)

Flora in the survey area includes pine, spruce and poplar trees with marshes. Fauna includes black bear and their cubs, moose, squirrels, grouse, beavers and mice. In a few areas on the grid beavers have created dams flooding certain areas. There are many different types of birds in the area.

At the time of the survey, temperature at the Trout property ranged from around 0 °C at night up to 20 °C during the day. Precipitation was light during the survey, but the conditions were wet due to recent snow melt.



Figure 1: Overview map of the Trout Property located in British Columbia, Canada.

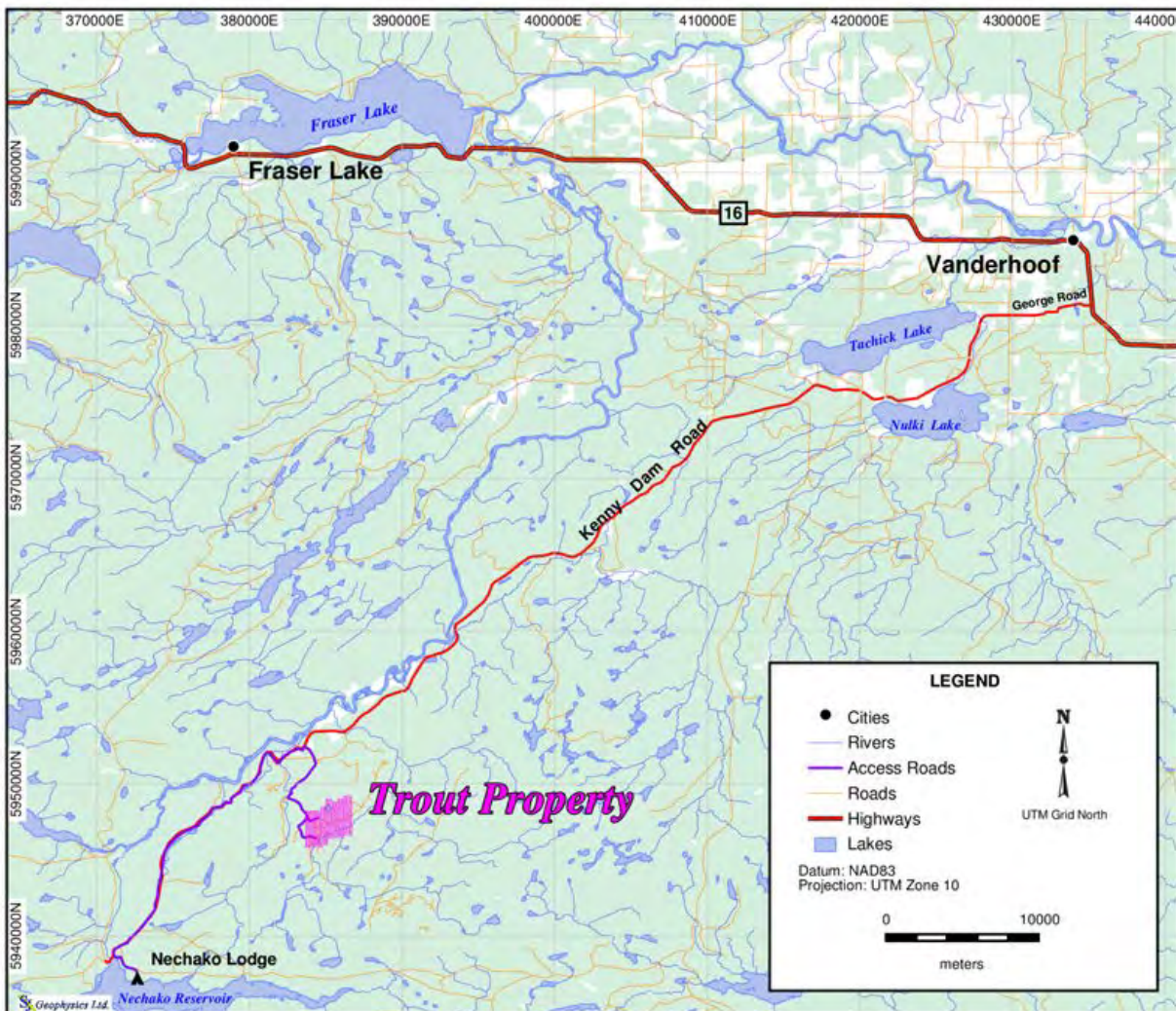


Figure 2: Location map for the Trout Property showing towns and road access.

3. GRID INFORMATION

Grid Name	Trout Property
Number of Grid Lines	31
Grid Line Azimuth	0°
Line Spacing	100 m
Station Spacing	50 m
Elevation range	816 – 958 m

Table 2: Grid parameters

The Trout Property geophysical grid consisted of 31 lines, oriented N-S, and spaced at 100 m with stations flagged and marked every 50 m (Figure 3). Line and station labels for the grid were based on the UTM coordinates, with the line labels being represented by the last five digits in the UTM easting and the station labels represented by the last five digits in the UTM northing. Stations along lines were marked by using a tight chain and compass, thus station labels may not match UTM coordinates.

All of the grid location information was recorded by the SJ Geophysics crew, including GPS control points and slope/clinometric data. Control points were recorded with a Garmin GPSMAP 62s handheld GPS in the UTM projection and NAD83 datum Zone 10. Slope data were recorded with a Suunto handheld clinometer.

Terrain was reasonably flat in the north part of the grid with a creek valley in the south. The valley had short steep sides in the west and along the south, and widened into a larger swamp with gradual hills to the northeast. The ground conditions on the grid consisted mainly of deep soil with some areas of rocky outcrops. There were numerous small creeks and marshes, and two small lakes within the limits of the grid.

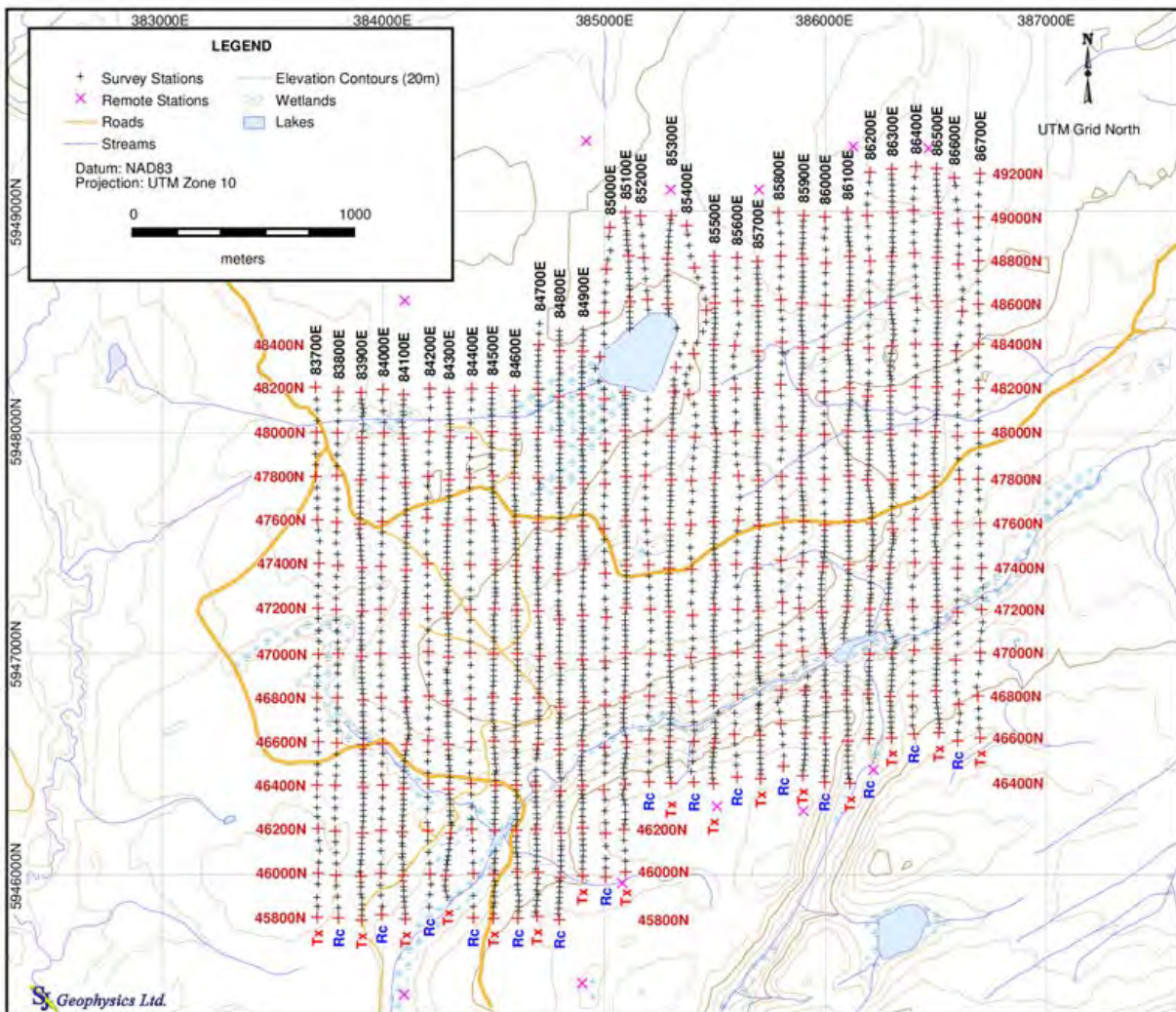


Figure 3: Geophysical grid map for the Trout Property.

4. FIELD WORK AND INSTRUMENTATION

4.1. Survey Techniques and Data Collected

Geophysical data were collected on the established grid using both the 3DIP and 2DIP survey techniques. Out of the 31 lines on the grid, all of them were surveyed with 3DIP. Only four of the 31 grid lines were surveyed with 2DIP. These four 2DIP lines are: 84600E and 84800E as well as portions of 86000E and 86200E. Please refer to Appendix A for a detailed breakdown of the surveyed 3DIP and 2DIP grid lines.

4.2. Survey Parameters and Instrumentation

The geophysical instrumentation used to acquire the IP data consisted of SJ-24 full waveform receivers and a GDD Tx II transmitter. The GDD Tx II transmitter system was shipped to another project and replaced by a VIP transmitter system towards the end of the survey. The specifications of these instruments are listed in Appendix B and the equipment parameters are summarized in Table 3.

Array Type	3DIP – Offset Pole-Dipole
Number of Dipoles	16 to 32
Dipole Length	50 m
Array Length	800 m to 1600 m
Current Interval	50 m consecutive or 100 m interlaced (50 m effective)
IP Transmitter	GDD TxII (Serial #246, 247), VIP transmitter
Duty Cycle	50%
Waveform	Square
Cycle and Period	2 sec on / 2 sec off; 8 second
IP Receiver	SJ-24 Full Waveform Digital Receiver
Reading Length	Minimum 83 seconds
Vp Delay, Vp Integration	1200 ms, 600 ms
Mx Delay, # of Windows Width (Mx Intergration)	200 ms, 20 36, 39, 42, 45, 48, 52, 56, 60, 65, 70, 75, 81, 87, 94, 101, 109, 118, 128, 140, 154 (200 ms – 1800 ms)
Properties Calculated	Vp, Mx, Sp, Apparent Res
GPS	Garmin GPSmap 62s handheld
Average Accuracy	5 m or less
Projection / Datum	UTM NAD83 Zone 10

Table 3: Instrument parameters

The dipole array used in the survey mainly consisted of 16 to 32 consecutive dipoles at 50 m dipole spacing. The dipole array setting used for receiver line 84400E was different. This array, consisting of 30 dipoles with 100 m dipoles, was laid out overlapping one another to create an “interlaced array” (Figure 4) that had an effective dipole size of 50 m. This approach was in an attempt to improve data quality by doubling the dipole size while maintaining a similar resolution in a low resistivity and low chargeability environment encountered in the western portion of the grid. IP data analysis showed that the approach did not provide significant benefit for reducing the noise level of the decay curves when the background chargeability is extremely low (< 2 ms). For logistical reasons, the consecutive array was used for the rest of the survey.

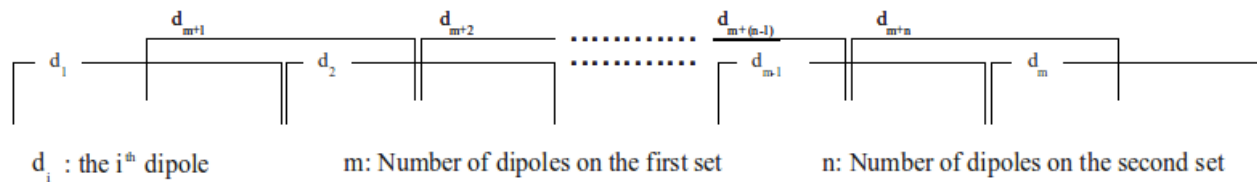


Figure 4: Schematic representation of the interlaced array used on the line 84400E.

The IP arrays for this survey were connected using special 8-conductor cables with 50 m takeouts for the receiver electrodes. For the potential line, the electrodes consisted of stainless steel pins, 60 cm long and 10 mm in diameter, which were hammered into the ground. At each current station (50 m intervals), current was injected using two long (75 cm) stainless steel electrodes hammered into the ground. Current injections were offset 25 m on repeated lines. The remote current locations consisted of up to four 75 cm stainless steel rods, 15 mm in diameter. Table 4 shows the UTM locations of the remote sites.

Name	Label	UTM Northing/NAD83Z10	UTM Easting/NAD83Z10
North Remote 1	84101E 48600N	5948596	384098
South Remote 1	84102E 45450N	5945459	384095
North Remote 2	84901E 49350N	5949318	384918
South Remote 2	84902E 45500N	5945510	384901
South Remote 3	85002E 45950N	5945962	385082
North Remote 3	85301E 49100N	5979097	385300
South Remote 4	85502E 46300N	5946310	385510
North Remote 4	85701E 49050N	5949097	385700
South Remote 5	85902E 46250N	5946289	385900
North Remote 5	86101E 49300N	5949293	386127
South Remote 6	86302E 46450N	5946475	386218
North Remote 6	86501E 49300N	5949284	386466

Table 4: Locations of IP remote sites

4.3. Field Logistics

An SJ Geophysics field crew typically consists of at least two field geophysicists or technicians and four helpers to assist in the day-to-day operation of the survey. The field geophysicists and technicians oversee all operational aspects including field logistics, data acquisition and initial field data quality control. Table 5 lists the SJ Geophysics crew members on this project. No local helpers were hired by the client to assist the SJ Geophysics crew in the day-to-day operation of the survey.

The SJ Geophysics crew's first day on site at the Trout Property was May 5, 2012 and they remained on site until June 6.

<i>Crew Member Name</i>	<i>Role</i>	<i>Dates on Site</i>
Matvei Kootchin	Field Geophysicist	May 5 – May 15, May 30 – June 6, 2012
Brian Chen	Field Geophysicist	May 5 – May 12, 2012
Nathan Anstey	Field Geophysicist	May 5 – May 22, 2012
Kieran Kootchin	Field Technician	May 5 – May 29, 2012
Vernon Prince	Helper	May 5 – May 29, 2012
Ryan Rolick	Helper	May 5 – June 1, 2012
Lee Zayonce	Field Geophysicist	May 17 – June 6, 2012
Jordan Perk	Field Geophysicist	May 13 – June 6, 2012
Jay Enns	Field Geophysicist	May 23 – June 6, 2012
Grant O'Neill	Helper	May 30 – June 6, 2012
Nick Chalykoff	Helper	June 2 – June 6, 2012

Table 5: Details of the SJ Geophysics crew on site

The SJ Geophysics crew was accommodated by the client in two cabins at Nechako Lodge, approximately 95 km southwest of Vanderhoof. The lodge was powered by a wind turbine with diesel generators for backup power. Heat was provided through a wood stove in each of the cabins. Hot water was in one of the cabins with the other cabin having a shower separate from the cabin, with hot water powered by propane. Satellite internet access was minimal due to monthly bandwidth cap at Nechako Lodge. Bedding was not provided, requiring the crew to bring their own sleeping bag. There was no cell service at the lodge, communication with the office was done by satellite phone, internet, or cell phone from certain areas of the grid.

Animals chewing geophysical equipment were somewhat problematic early in the survey. Breaks occurred in the current wire and the receiver cable, with work stoppages varying based upon the position of the breaks and the ease of finding them. To help correct for this the crew began hanging receiver cable and current wire in the trees, which reduced the number of animal chews significantly. The creek cutting across the southern portion of the grid also created access issues to the southern portions of many lines. The creek alternates between a narrow, crossable stream and a series of wide ponds and swamps created by beaver dams. A base line was cut on the south end of the grid from the road on line 84600E to improve access to the western lines, and many current lines were routed across by detouring to known crossings. A large slingshot

was used to launch some current wires across the creek in areas where there was no practical way to cross nearby. Both the stream and the small lake in the north were too far to cross for a few lines, causing small gaps in the receiver array. Current lines were modified to stretch around the gaps. Additionally, a few lines were cut beyond the original grid area in the south. These lines were surveyed to the full extent of the cut line and the grid was modified to match.

There were a few minor incidents on this project. On June 4, Jay Enns rolled his ankle while on the grid. Jay was able to continue working to finish the survey. Matvei Kootchin contracted the flu early in June, which got progressively worse, and was taken to a clinic in Vanderhoof on June 5 to be checked out. He was unable to work for June 5 and returned to the lodge while he recuperated.

Overall, the field survey operation were carried out in an efficient way. The survey finished in the scheduled time.

5. *GEOPHYSICAL TECHNIQUES*

5.1 *IP Method*

The time domain IP technique energizes the ground by injecting square wave current pulses via a pair of current electrodes. During current injection, the apparent (bulk) resistivity of the ground is calculated from the measured primary voltage and the input current. Following current injection, a time decaying voltage is also measured at the receiver electrodes. This IP effect measures the amount of polarizable (or “chargeable”) particles in the subsurface rock.

Under ideal circumstances, high chargeability corresponds to disseminated metallic sulfides. Unfortunately, IP responses are rarely uniquely interpretable as other rock materials are also chargeable, such as some graphitic rocks, clays and some metamorphic rocks (e.g., serpentinite). Therefore, it is prudent from a geological perspective to incorporate other data sets to assist in interpretation.

IP and resistivity measurements are generally considered repeatable to within about five percent. However, changing field conditions, such as variable water content or electrode contact, reduce the overall repeatability. These measurements are influenced to a large degree by the rock

materials near the surface or, more precisely, near the measurement electrodes. In the past, interpretation of a traditional IP pseudosection was often uncertain because strong responses located near the surface could mask a weaker one at depth. We attempt to overcome this uncertainty by employing geophysical inversion to better interpret the data.

5.2 3DIP Method

Three dimensional IP surveys have been designed to take advantage of recent advances in 3D inversion techniques. Unlike conventional 2DIP, the electrode arrays are not restricted to an in-line geometry. In the standard 3DIP configuration, a receiver array is established along one survey line while current lines are located on two adjacent lines lying on either side of the receiver line. Current injections are performed sequentially at fixed increments (25, 50, 100 or 200 m) along the current lines. Meanwhile, geophysical data are collected along a receiver array which consists of 12 to 16 dipoles laid out along the receiver line. Spacing between current and receiver lines is often the same; however, line spacing is sometimes modified to compensate for local conditions, such as inaccessible sites and water bodies, or the overall conductivity of the ground. Whenever possible, two receivers are used to speed up production and increase depth penetration. In most cases, one receiver records a full 16 dipole array while the second receiver records additional dipoles. By injecting current at multiple locations along current lines adjacent to receiver arrays, data acquisition rates are significantly improved over conventional surveys.

6. *QUALITY ASSURANCE*

6.1. *Locations*

Good quality survey location data is crucial to successful analysis and interpretation of the collected geophysical data.

For the Trout property, the quality of the location data for this survey is generally high thanks to good satellite reception and relatively open terrain. In some places there was a dense, overhanging canopy; however, accurate GPS measurements were maintained. GPS measurements (control points) were obtained for each survey station so little interpolation was necessary.

6.2. *IP Data*

The IP geophysical data go through a series of quality assurance processes. Prior to acquisition, it is SJ Geophysics' best practice to acquire a noise reading to determine the background noise levels and to detect possible bad channels (i.e. poor ground contacts). This allows the operator to troubleshoot problem areas in the array prior to acquisition, then once the operator is satisfied surveying can begin. Immediately after each full waveform reading is completed the data are analyzed in the field to provide the operator a set of electric potential and chargeability values (Vp, Sp, Mx) as well as a chart of the chargeability decay curves for each dipole in the array. This gives the operator valuable information to verify the quality of data in real time. Also available to the operator are visualization tools for full waveform signals and a spectral analysis program to assist in troubleshooting possible bad stations and unwanted noise.

Each evening, the analyzed data are imported into JavIP: a proprietary IP database management system developed by S.J.V. Consultants Ltd. (SJV). This package integrates the locational information with each reading, thus allowing the calculation of the apparent resistivity and apparent chargeability. The package's interactive quality control tools include: plots of decay curves, tables of calculated parameters and a dot plot (a graphical display of data of the various parameters). These enable the field geophysicist to validate each data point. After the field geophysicist removes known bad points from field observations and other obvious outliers, the

database is delivered to SJV for a more stringent second review. In this second review, the data are scrutinized to ensure erroneous data points are not passed along to the final stage of processing: the inversion.

The data collected on the Trout project was of good quality. The voltage potentials (Vp), for the most part were weak, but the signals and resulting decay curves were clean near the site of current injection. On the Trout property most of the data flagged for removal was due to non-coupling. This phenomena is typical in IP surveys and is related to the survey configuration. Non-coupling occurs when the receiver dipole is sub-parallel to the equipotential lines which can result in a significant decrease in signal strength and lead to untrustworthy data. Some poor quality data were flagged for removal either due to low quality signals, or due to signal contamination originating from the receiver cables, usually caused by water saturation. The data tended to be noisier in areas with large water sources, with higher resistivities south of the creek. Figure 4 shows data from the north side of the grid where data was generally very clean. Figure 5 shows data from the southern side of the grid near the creek that tended to be slightly noisier.

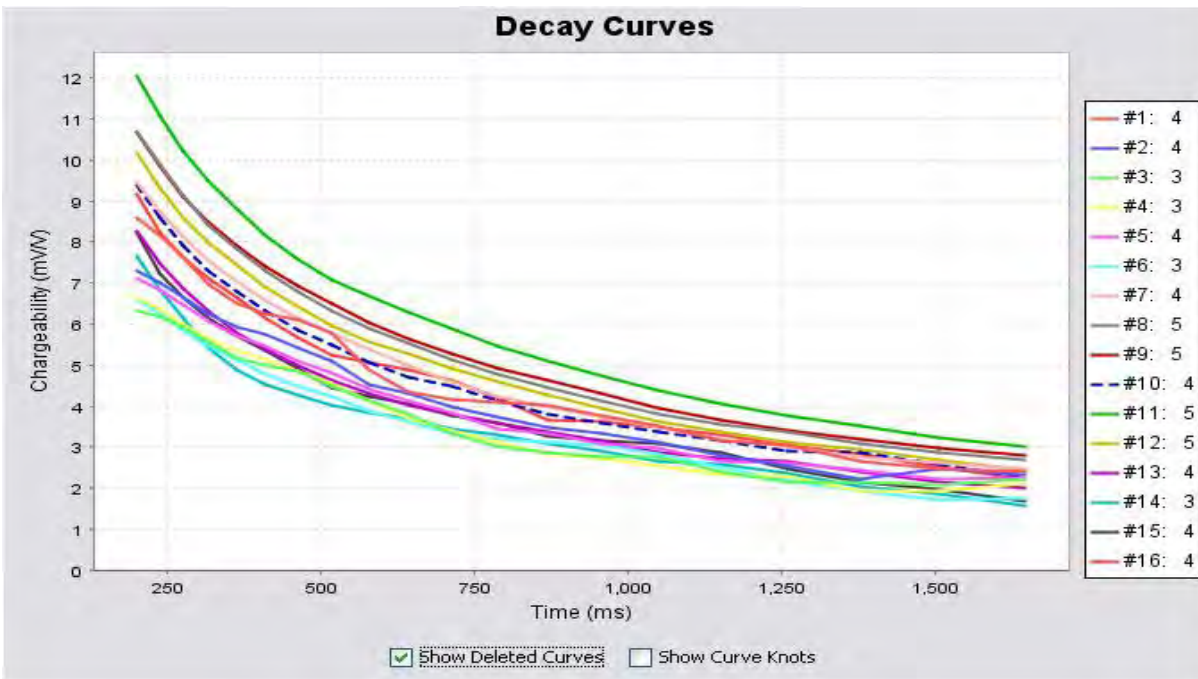


Figure 5: Decay curves from Receiver line 85600, Injection line 85500 station 48475.

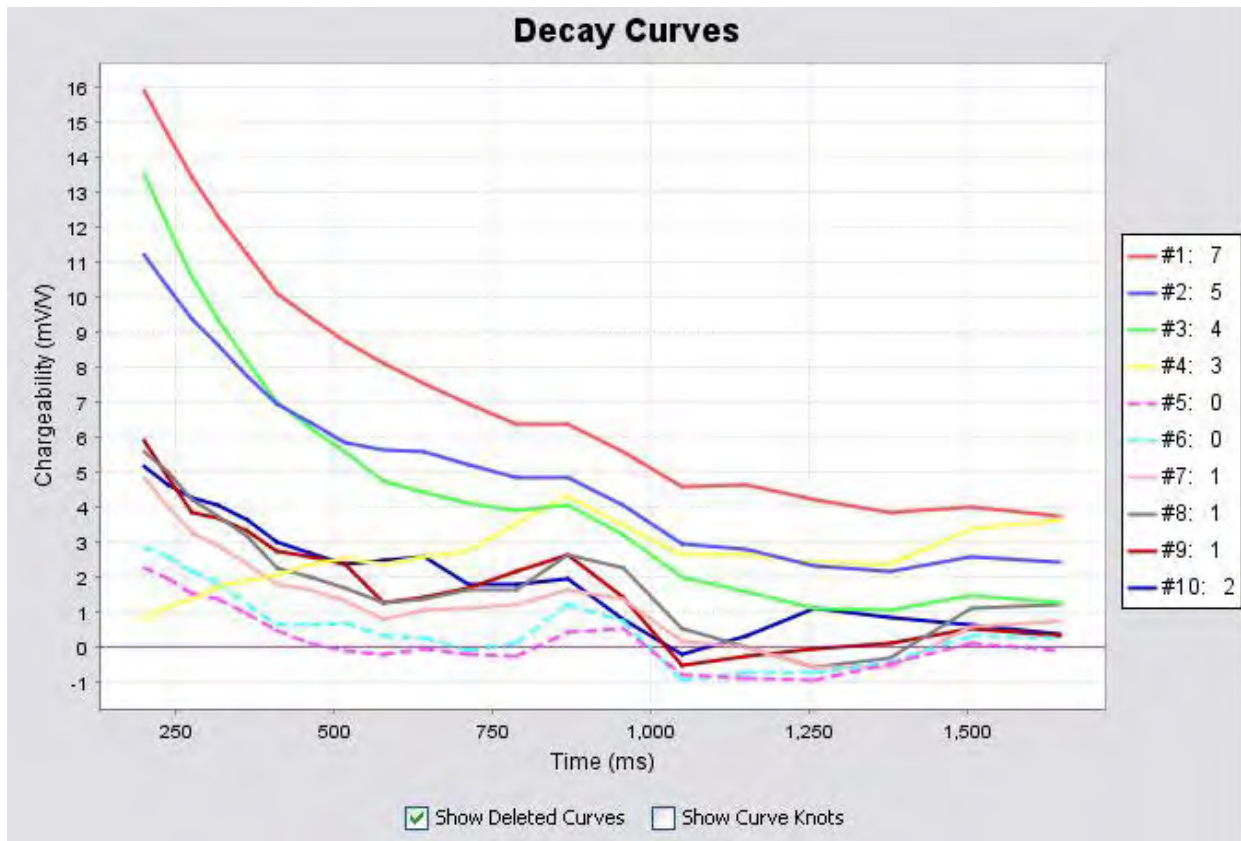


Figure 6: Decay curves from Receiver line 86000, Injection line 85900 station 47050. =

7. GEOPHYSICAL INVERSION

The purpose of geophysical inversion is to estimate the distribution of rock physical properties in the subsurface based on the geophysical data collected at the surface. Examples of rock physical properties include: density, resistivity, chargeability, and magnetic susceptibility. Geophysical measurements made at the surface are strongly influenced by the physical properties of rocks in the subsurface. Therefore, we can use mathematical algorithms to convert these surface measurements into a 3D picture of the subsurface. This process is called geophysical inversion. Unfortunately, the inversion process cannot provide a single unique solution. Indeed, there are many different possible subsurface 3D physical property models that could fit our surface geophysical measurements. Despite this limitation, inversion is a very powerful tool to help identify the main subsurface features which are required by the surface geophysical data.

With the combination of high quality surface measurements and geophysical inversion, a much greater understanding of the subsurface can be obtained. Several geophysical inversion programs are available, but SJ Geophysics primarily uses the UBC-GIF algorithms (e.g. DCIP2D, DCIP3D, MAG3D, GRAV3D) which were developed by a consortium of major mining companies under the auspices of the UBC-Geophysical Inversion Facility.

It is SJ Geophysics standard practice to invert data from 3DIP surveys, and to do this we use the DCIP3D program which solves two inverse problems. First, the DC potentials are inverted to calculate the spatial distribution of electrical resistivity in the subsurface. Second, the chargeability data (IP) are inverted to recover the spatial distribution of IP polarizable particles in subsurface rocks. When available, additional information, such as geological boundaries and down-hole geophysical data, can be added to the inversion in order to constrain the inversion model. The inversion programs are generally applied iteratively to evaluate the output with regard to what is geologically known, estimate the depth of detection, and determine the viability of specific measurements.

The inversion result is then run through a series of quality control steps prior to final gridding and mapping. Inversion output is plotted to show the distribution of physical properties (e.g. resistivity, chargeability, etc.) in cross-sections as well as plan maps that are sliced at different depths beneath the surface. Inversion results are also visualized in 3D using the open source software packages Mayavi and Paraview. Using both 2D and 3D views, additional data can then be overlain to aid in interpretation and facilitate discussion of potential drilling targets.

Respectfully submitted,
per SJ Geophysics Ltd.

Jay Enns

APPENDIX A: SURVEY DETAILS***Trout property: 3DIP surveyed lines***

<i>Line</i>	<i>Series</i>	<i>Type</i>	<i>Start Station</i>	<i>End Station</i>	<i>Survey Length (m)</i>
83700	E	Tx	45800	48200	2400
83800	E	Rc	45800	48200	2400
83900	E	Tx	45800	48200	2400
84000	E	Rc	45800	48200	2400
84100	E	Tx	45800	48200	2400
84200	E	Rc	45850	48200	2350
84300	E	Tx	45900	48200	2300
84400	E	Rc	45800	48200	2400
84500	E	Tx	45800	48200	2400
84600	E	Rc	45800	48200	2400
84700	E	Tx	45800	48500	2700
84800	E	Rc	45800	48500	2700
84900	E	Tx	46000	48500	2500
85000	E	Rc	46000	49000	3000
85100	E	Tx	46000	48200	2200
85100	E	Tx	48475	49000	525
85200	E	Rc	46400	48150	1750
85200	E	Rc	48550	49000	450
85300	E	Tx	46400	49000	2600
85400	E	Rc	46400	49000	2600
85500	E	Tx	46400	48800	2400
85600	E	Rc	46400	48800	2400
85700	E	Tx	46400	48800	2400

<i>Line</i>	<i>Series</i>	<i>Type</i>	<i>Start Station</i>	<i>End Station</i>	<i>Survey Length (m)</i>
85800	E	Rc	46400	49000	2600
85900	E	Tx	46400	49000	2600
86000	E	Rc	46400	49000	2600
86100	E	Tx	46400	49000	2600
86200	E	Rc	46600	49200	2600
86300	E	Tx	46600	49200	2600
86400	E	Rc	46600	49200	2600
86500	E	Tx	46600	49200	2600
86600	E	Rc	46600	49200	2600
86700	E	Tx	46600	49200	2600
					78075

Total Linear Metres = 78,075

Rc = Receiver Line, Tx = Transmitter Line

Trout property: 2DIP surveyed lines

<i>Line</i>	<i>Series</i>	<i>Type</i>	<i>Start Station</i>	<i>End Station</i>	<i>Survey Length (m)</i>
84600	E	Tx/Rc	45800	48200	2400
84800	E	Tx/Rc	45800	48500	2700
86000	E	Tx/Rc	46400	47600	1200
86200	E	Tx/Rc	46600	48250	1850

Total Linear Metres = 8,150

APPENDIX B: INSTRUMENT SPECIFICATIONS

SJ-24 Full Waveform Digital IP Receiver

Technical:

Input impedance:	10 Ω
Input overvoltage protection:	up to 1000V
External memory:	Unlimited readings
Number of dipoles:	4 to 16 +, expandable
Synchronization:	Software signal post-processing user selectable
Common mode rejection:	More than 100 dB (for Rs=0)
Self potential (Sp):	Range: -5V to +5V Resolution: 0.1mV Proprietary intelligent stacking process rejecting strong non-linear SP drifts
Primary voltage:	Range: 1 μ V – 10V (24bit) Resolution: 1 μ V Accuracy: typ. <1.0%
Chargeability:	Resolution: 1 μ V/V Accuracy: typ. <1.0%

General (4 dipole unit):

Dimensions:	18 x 16 x 9 cm
Weight:	1.1kg
Battery:	12V external
Operating temperature range:	-20 °C to 40 °C

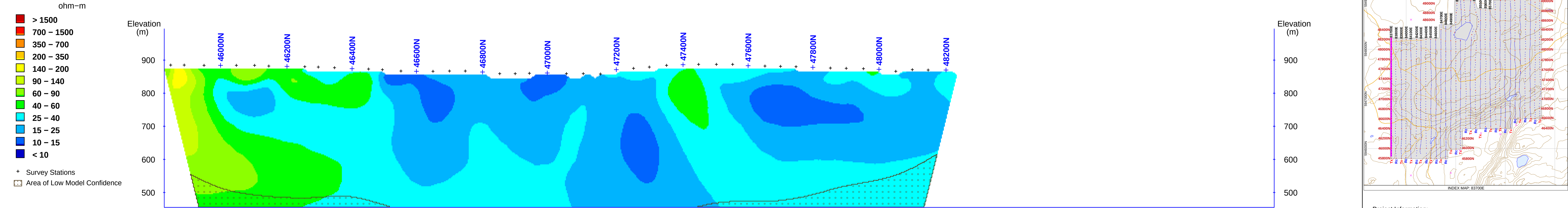
GDD Tx II IP Transmitter

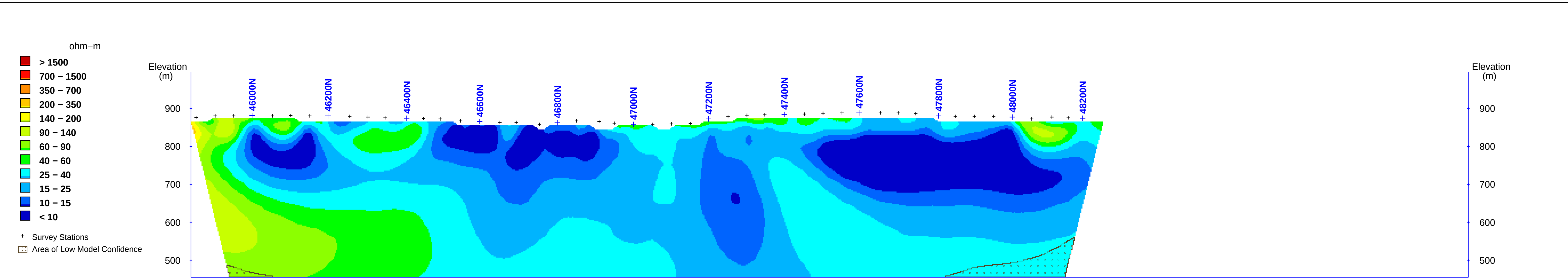
Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	3.6 kW maximum
Output voltage:	150 to 2200 V
Output current:	5 mA to 10 A
Time domain:	1, 2, 4, 8 second on/off cycle
Operating temp. range:	-40 °C to +65 °C
Display:	Digital LCD read to 0.001 A
Dimensions:	34 x 21 x 39 cm
Weight:	20 kg

IRIS VIP-3000 IP Transmitter

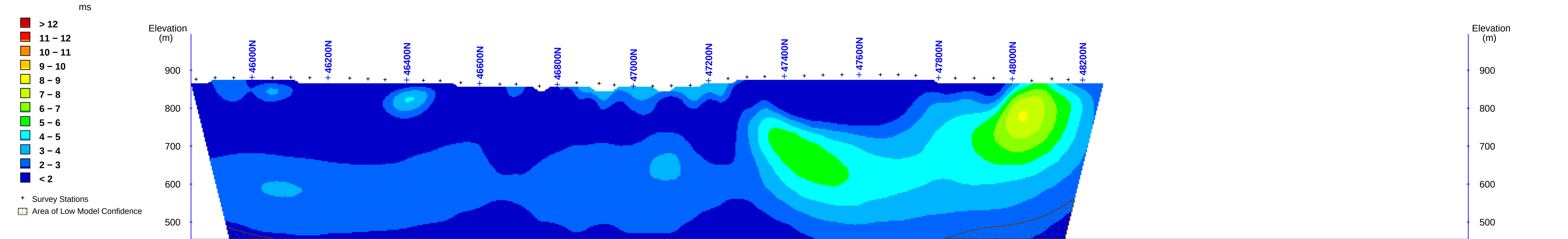
Output Ratings

Output power:	3000 VA maximum
Output voltage:	3000V maximum, auto voltage range selection
Output current:	20 ma to 5A, current regulated to better than 1 %
Dipoles:	9, push button selected
Output connectors:	Uniclip connectors accept bare wire or plug of up to 4 mm diameter
Fall times:	Better than 1 msce in resistive load
Time domain:	Preprogrammed on and off times from 0.25 to 8 seconds, by factor of 2 Other cycles programmable by user Automatic circuit opening in off time
Frequency domain:	Pre-programmed frequencies from 0.0625 Hz to 4Hz, by factor of 2 Alternate or simultaneous transmission of two frequencies Other frequencies programmable by user
Time and frequency stability:	0.01 % 1 PPB optional
Display:	Alphanumeric liquid crystal display
Power source:	175 to 270 VAC, 45-450 Hz, single phase
Operating temperature:	-40° to +50° C
Protection:	Short circuit at 20 Ω Open loop at 60 000 Ω Thermal Input overvoltage and undervoltage
Remote control:	full duplex RS232C, 300-19 200 bps
Dimensions:	410 x 320 x 240 m
Weight:	16 kg

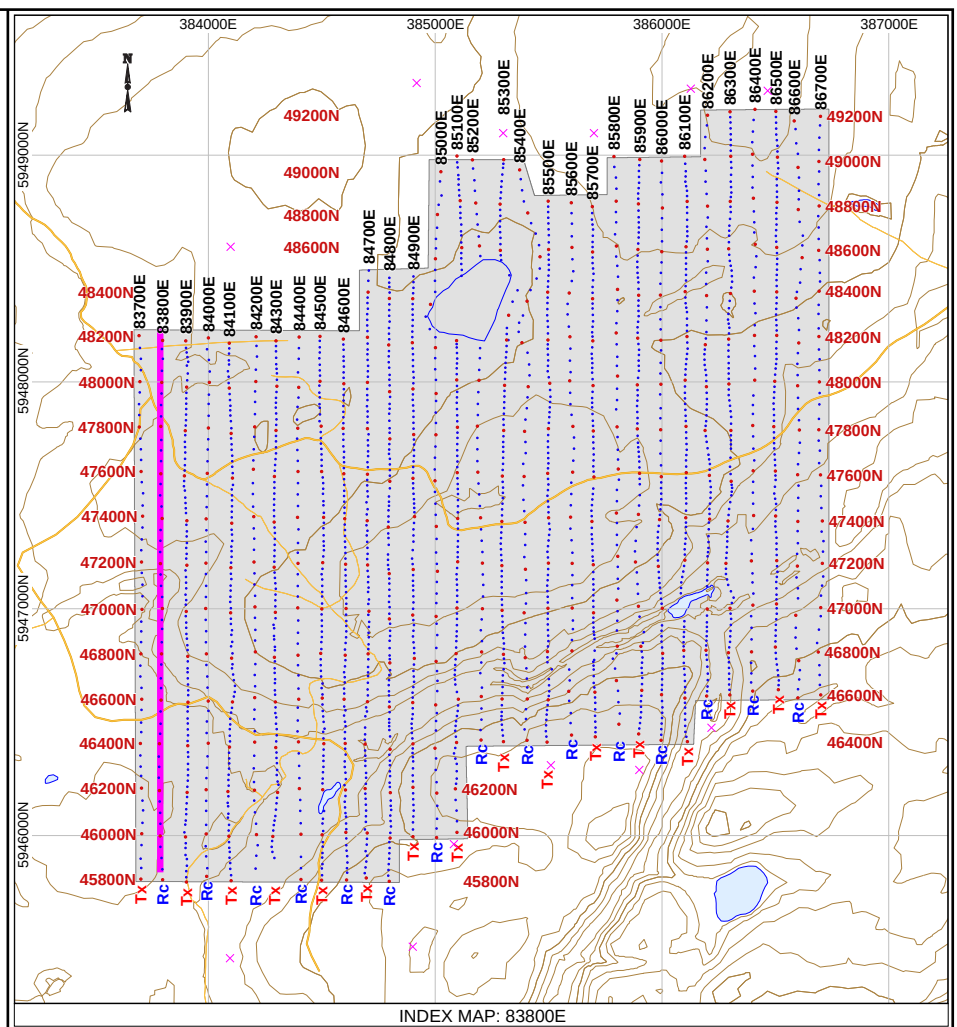




Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

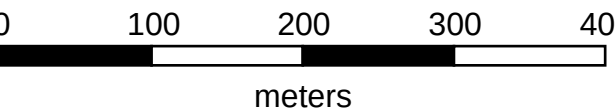


Project Information:
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3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
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Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

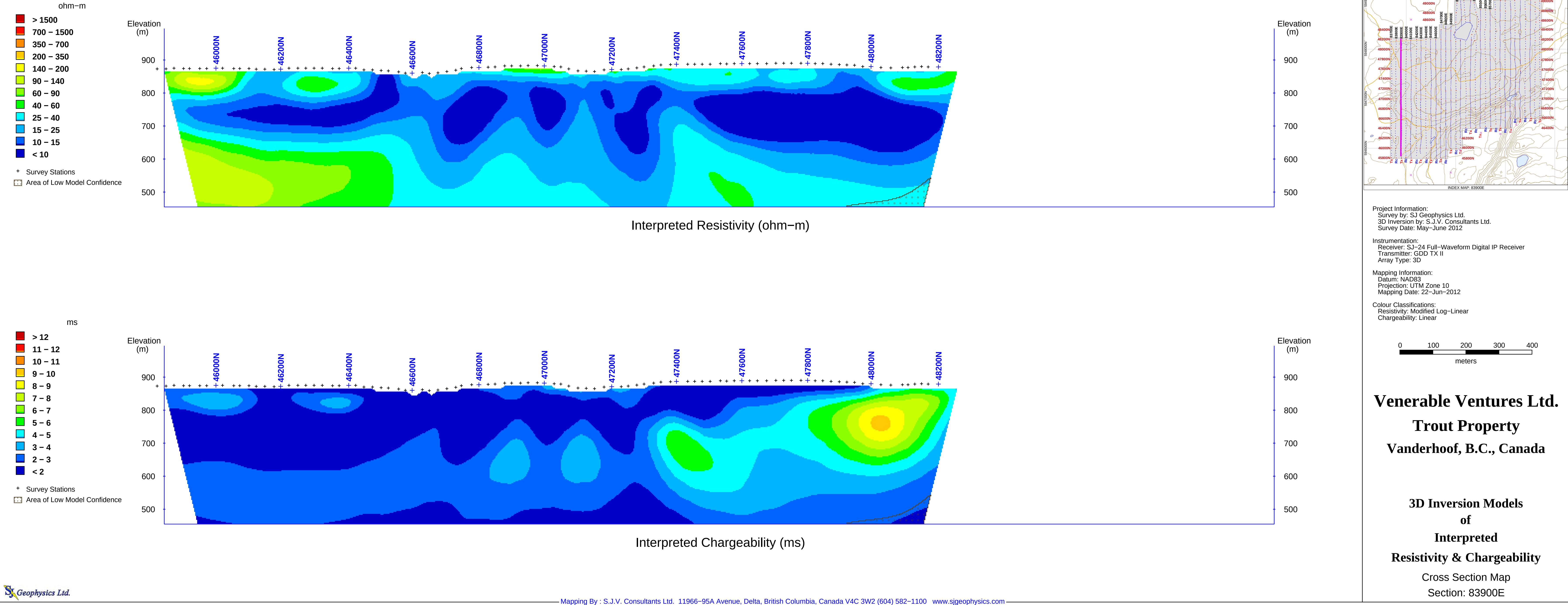
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 83800E



INDEX MAP: 83900E

Project Information:

Survey by: SJ Geophysics Ltd.

3D Inversion by: S.J.V. Consultants Ltd.

Survey Date: May-June 2012

Instrumentation:

Receiver: SJ-24 Full-Waveform Digital IP Receiver

Transmitter: GDD TX II

Array Type: 3D

Mapping Information:

Datum: NAD83

Projection: UTM Zone 10

Mapping Date: 22-Jun-2012

Colour Classifications:

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Chargeability: Linear

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Venerable Ventures Ltd.

Trout Property

Vanderhoof, B.C., Canada

3D Inversion Models

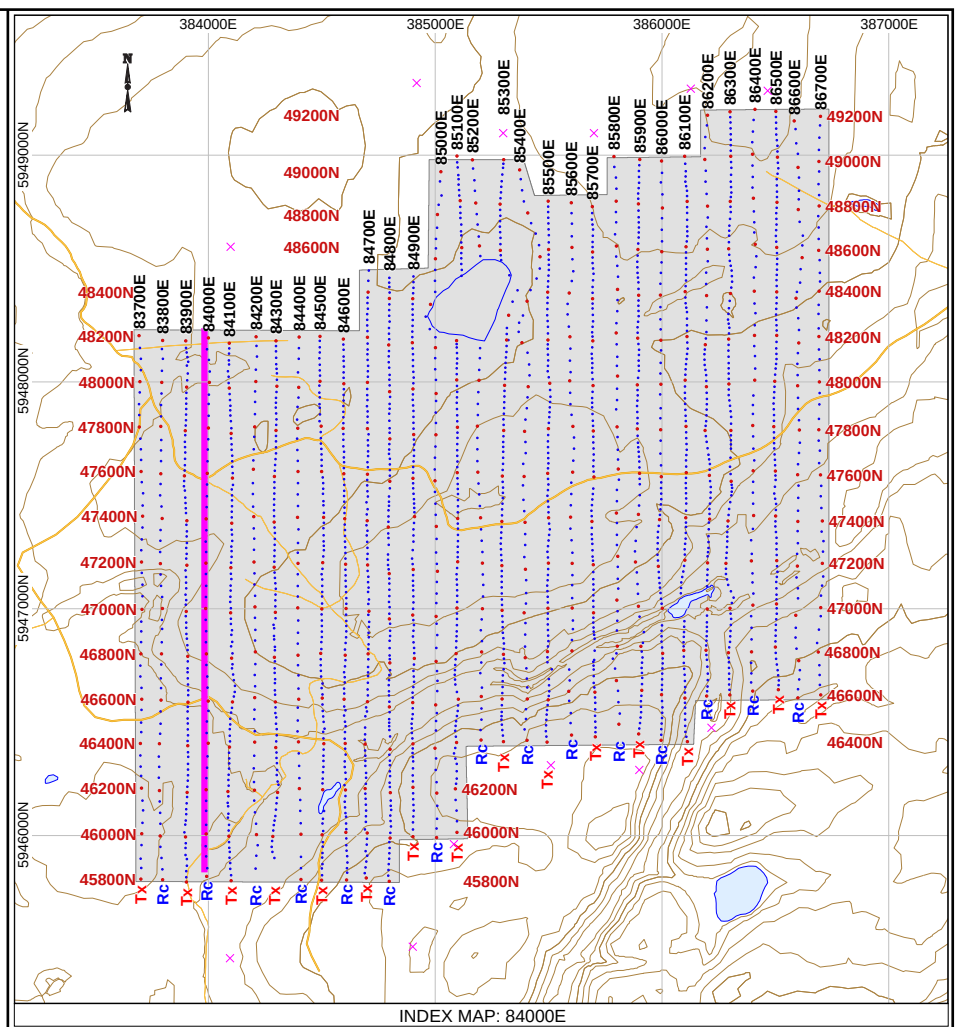
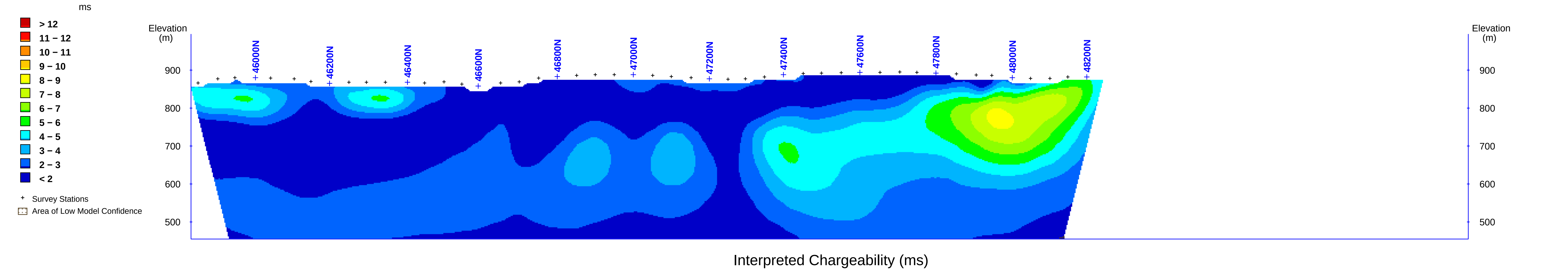
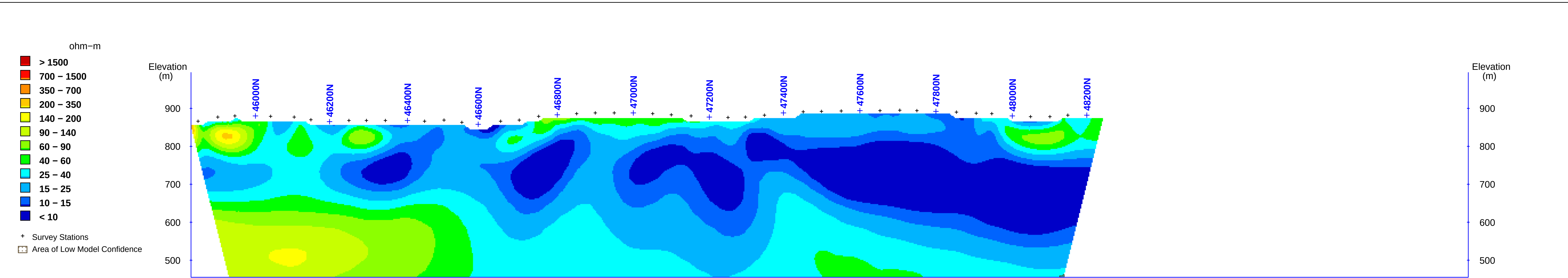
of

Interpreted

Resistivity & Chargeability

Cross Section Map

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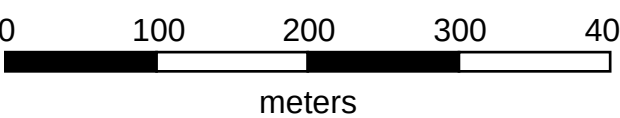


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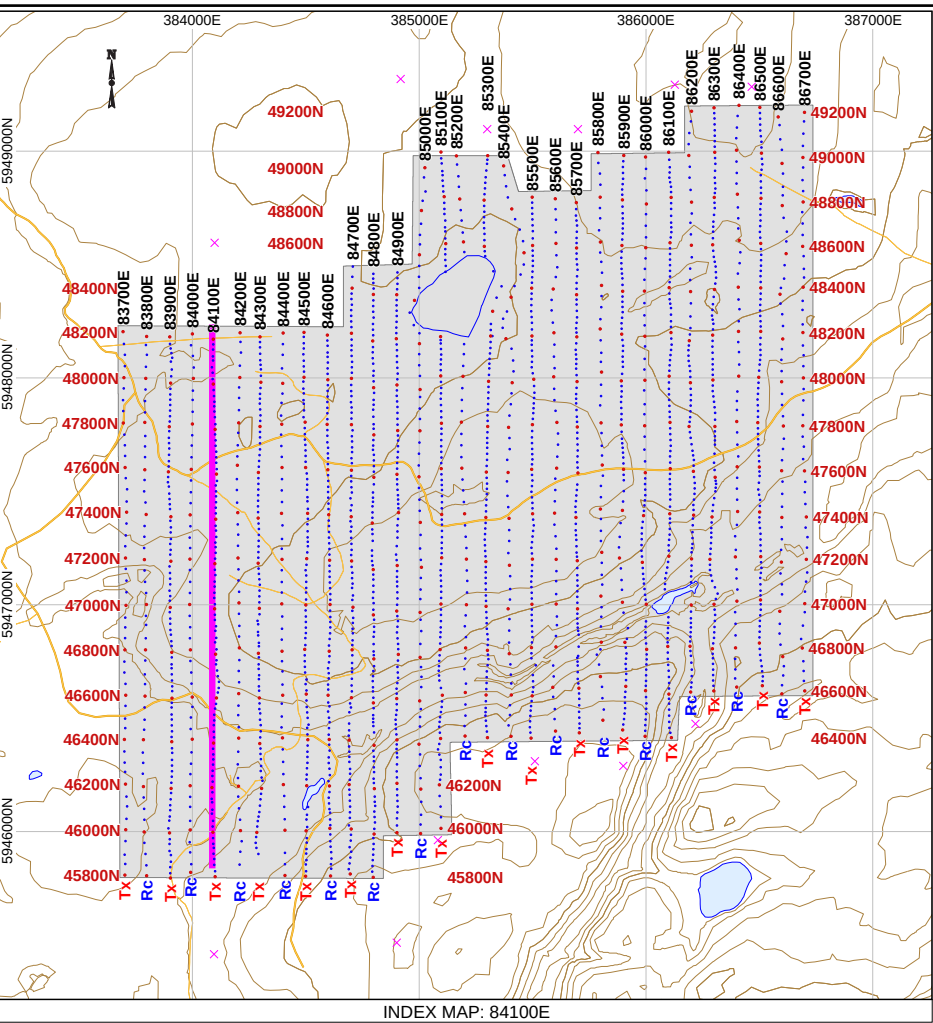
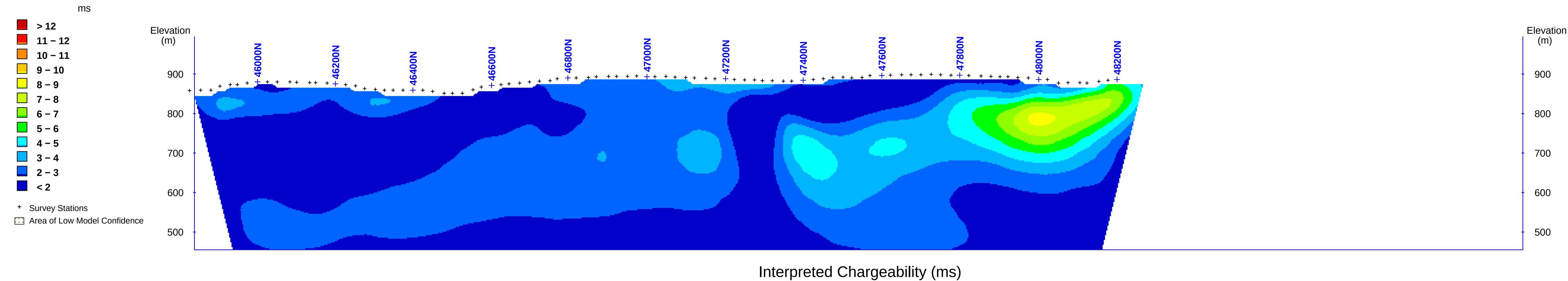
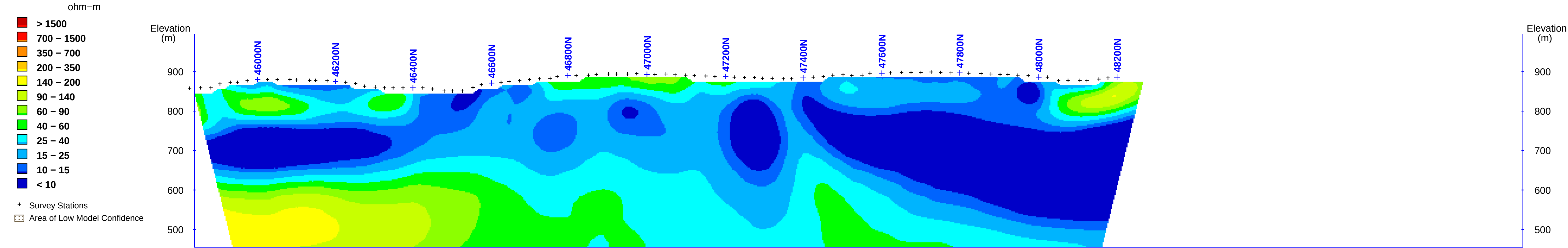
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Chargeability: Linear



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Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 84000E

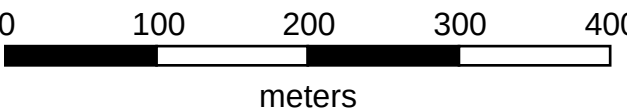


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3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

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Transmitter: GDD TX II
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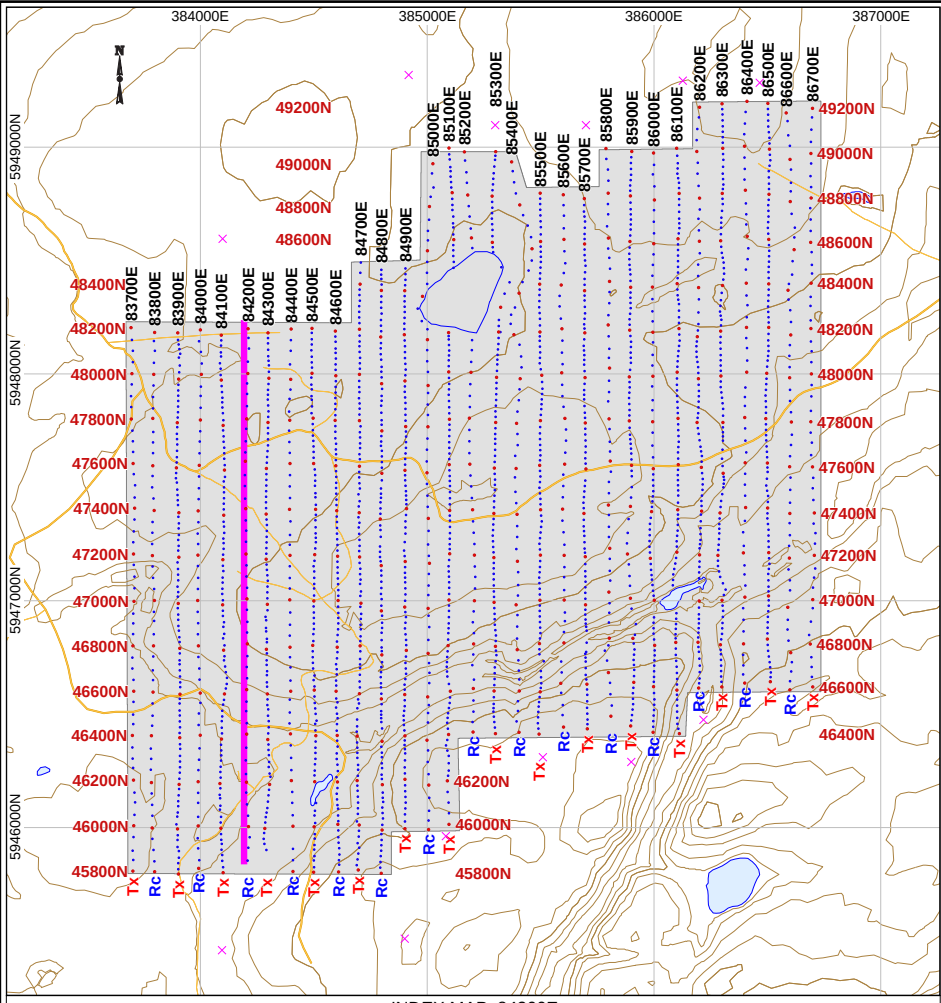
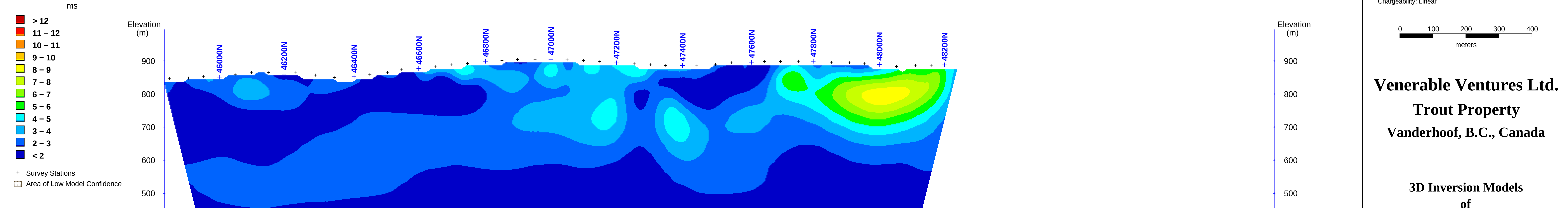
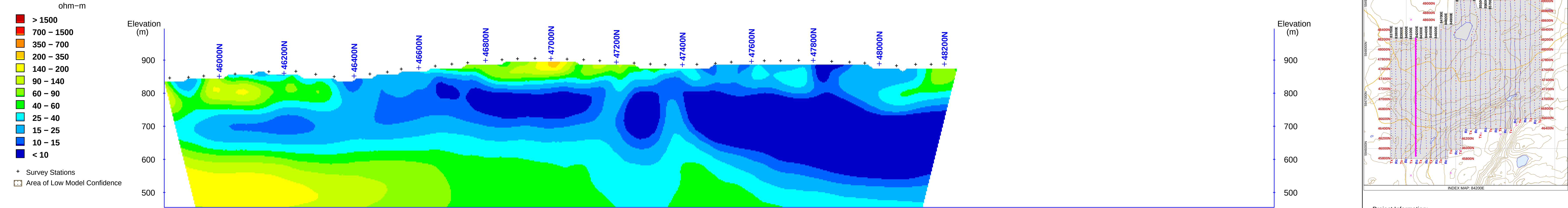
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Chargeability: Linear



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Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 84100E

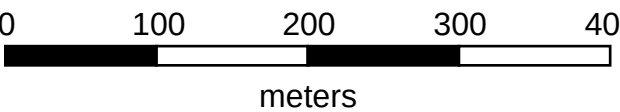


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3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

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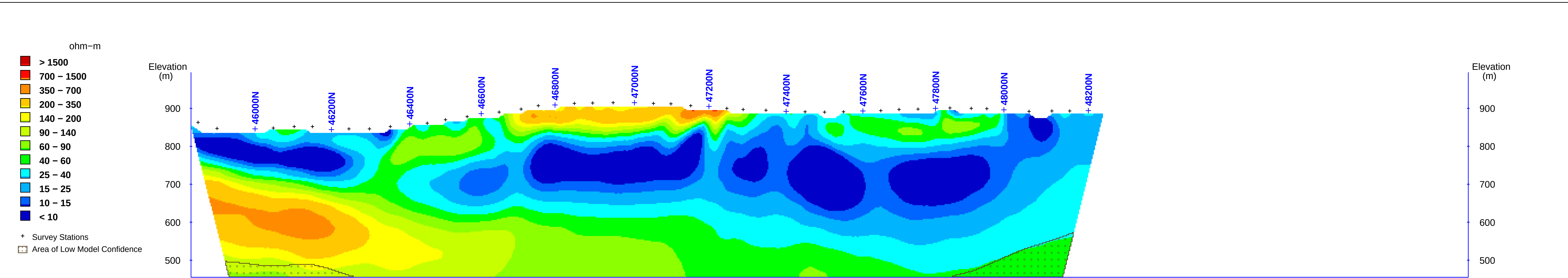
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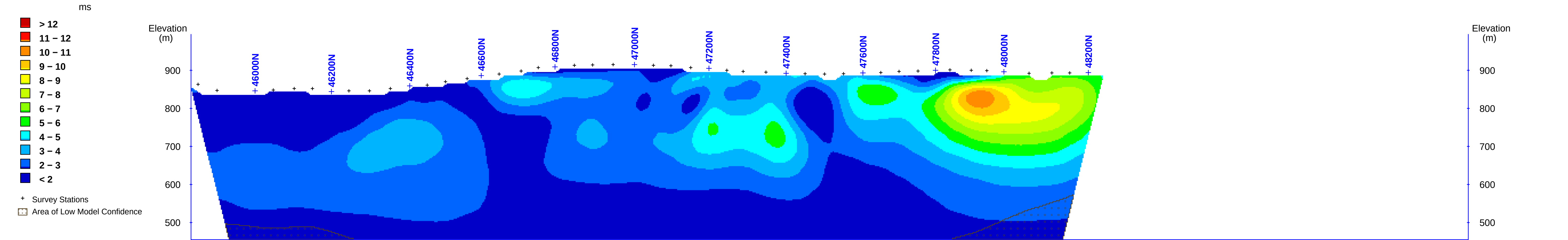
Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

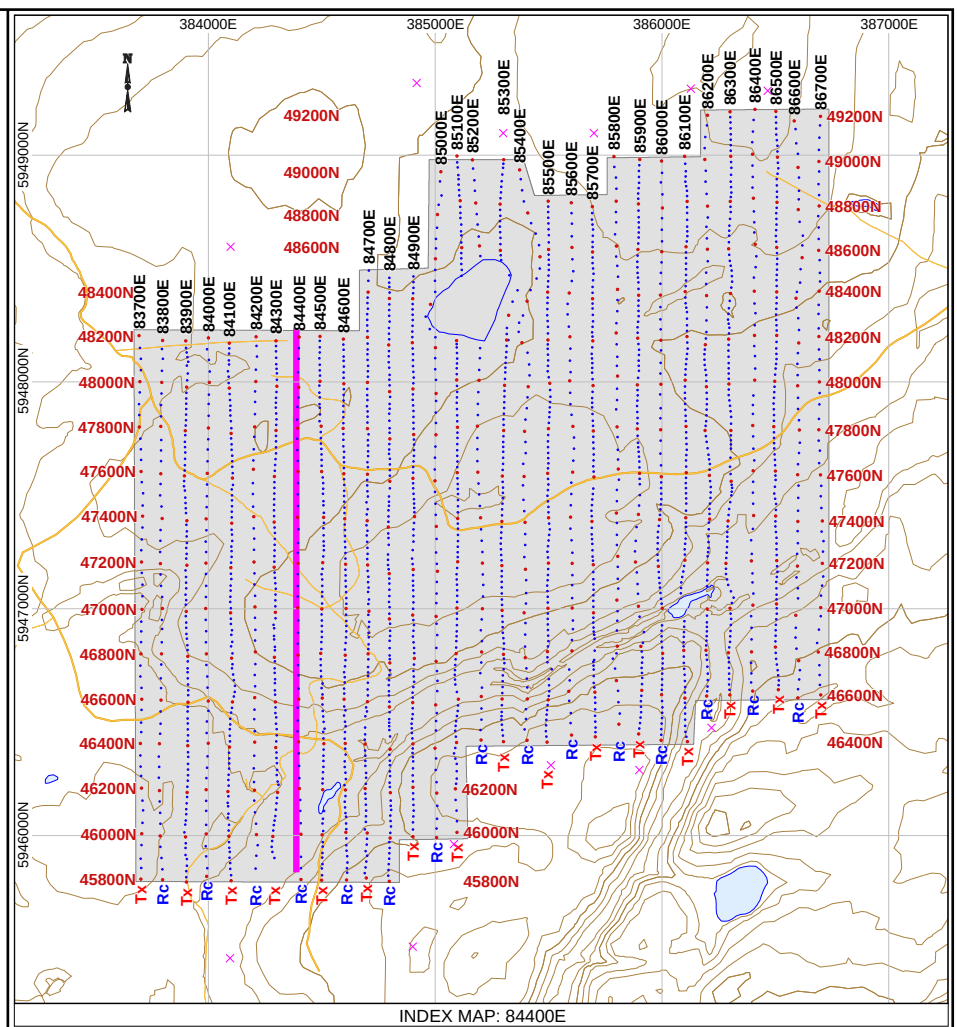
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Interpreted Chargeability (ms)

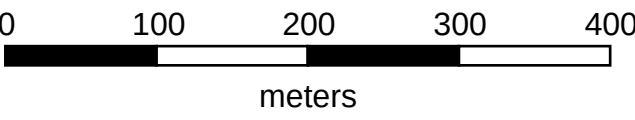


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
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Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
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Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

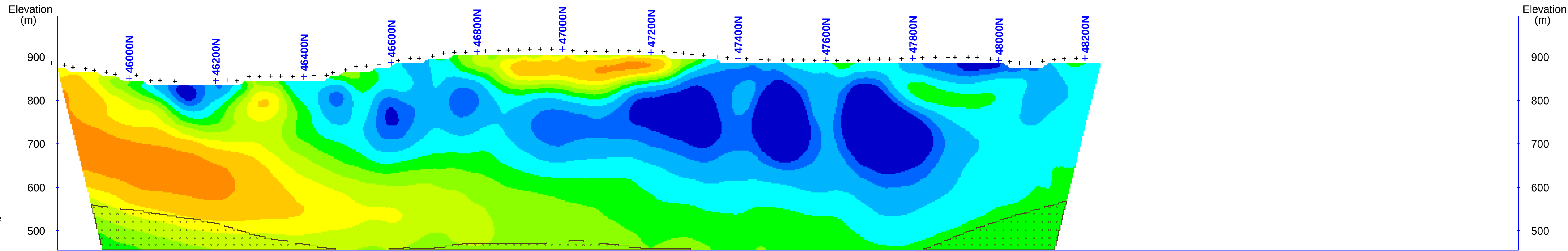
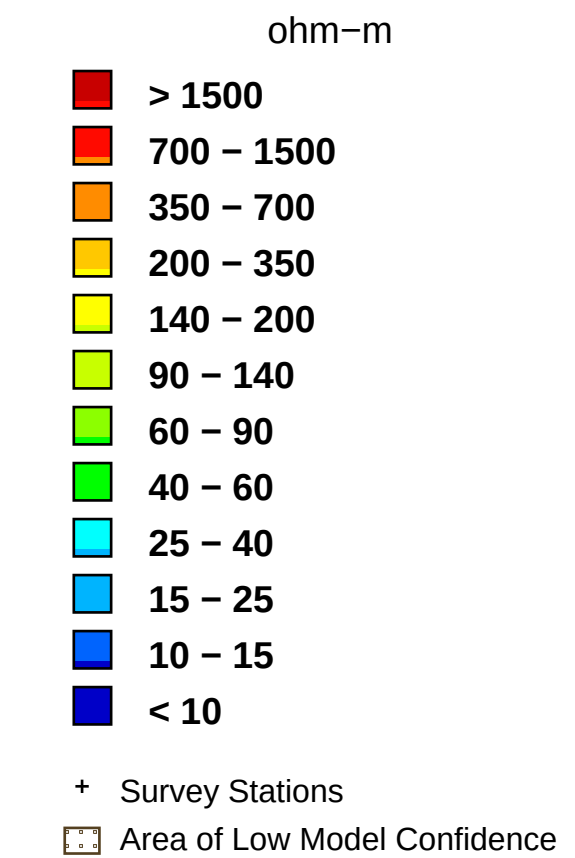
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Chargeability: Linear



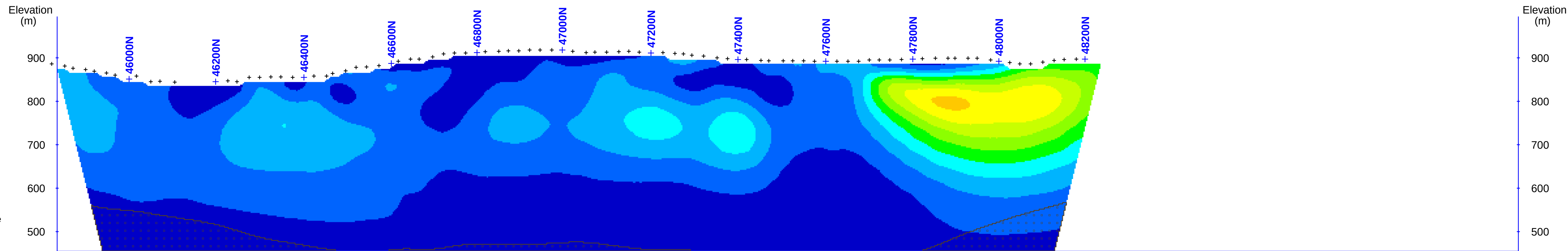
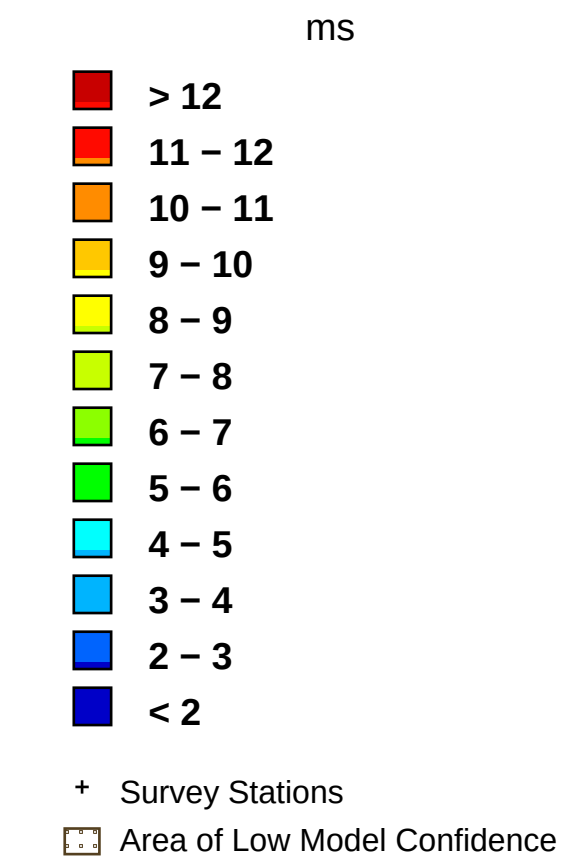
Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

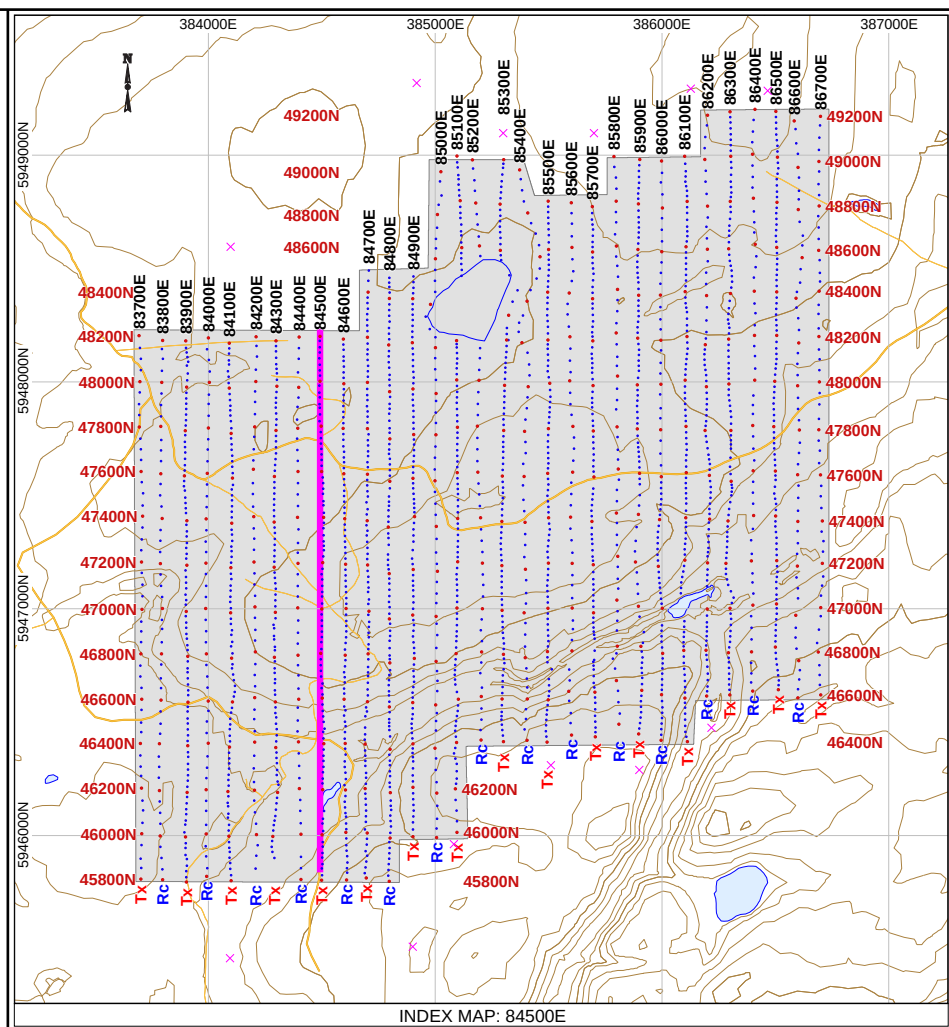
Cross Section Map
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Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

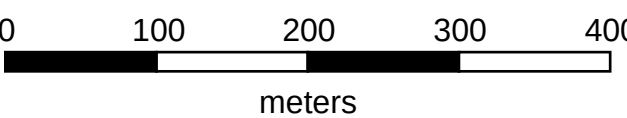


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

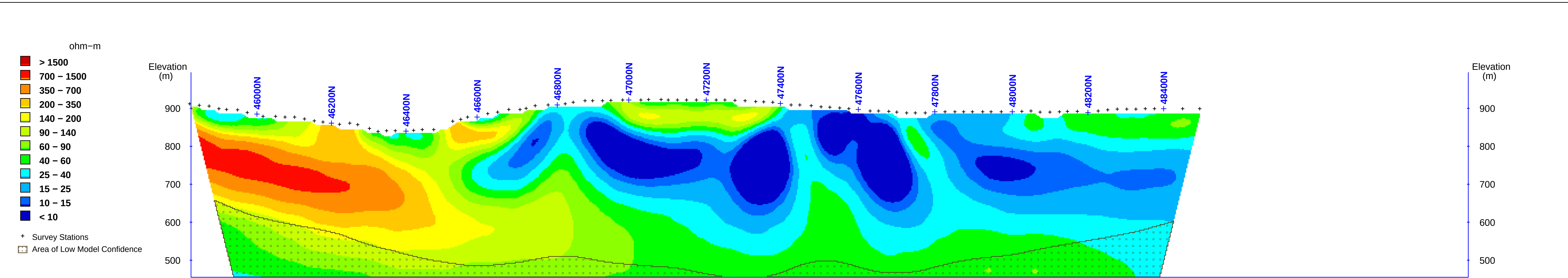
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



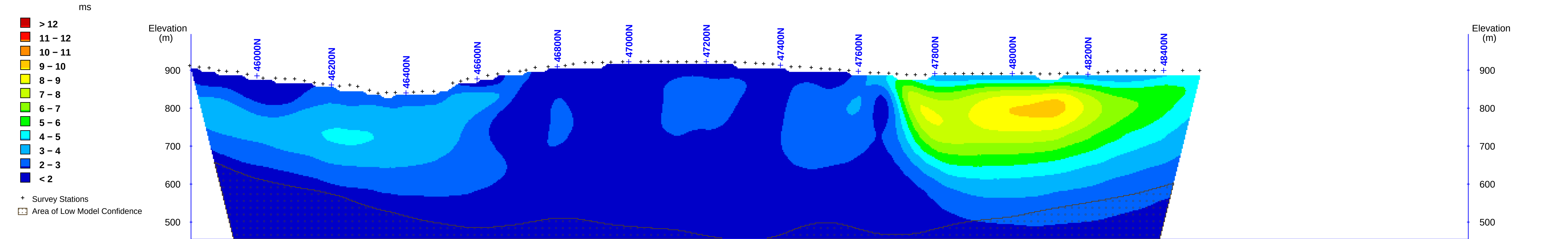
Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

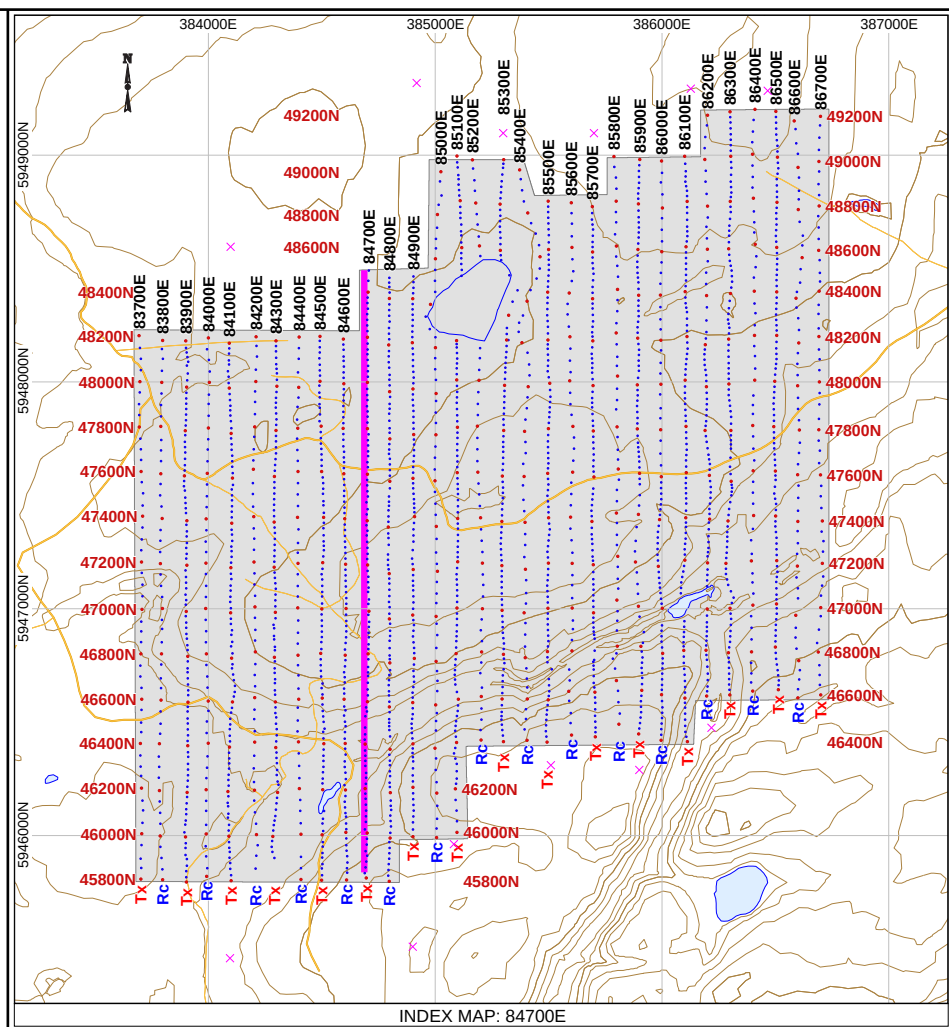
Cross Section Map
Section: 84500E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

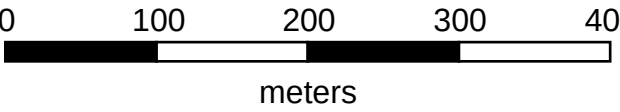


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

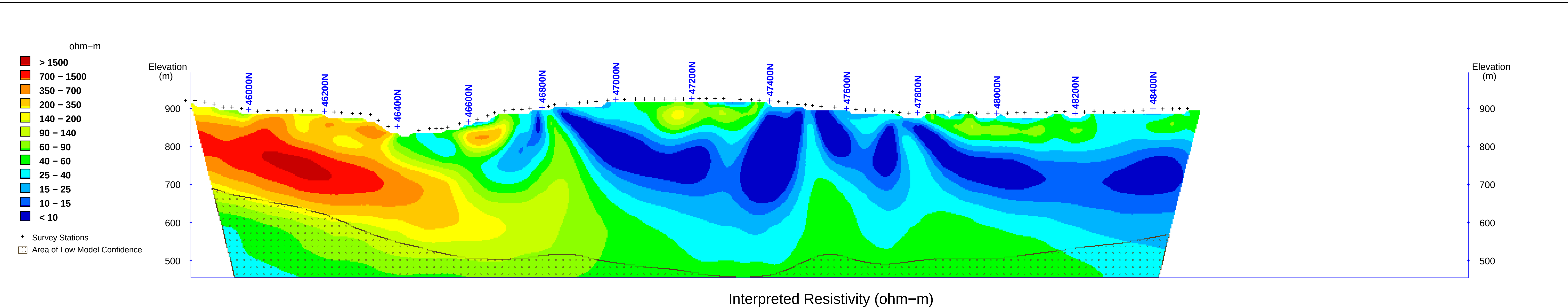
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 84700E



Project Information:

Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:

Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:

Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

Colour Classifications:

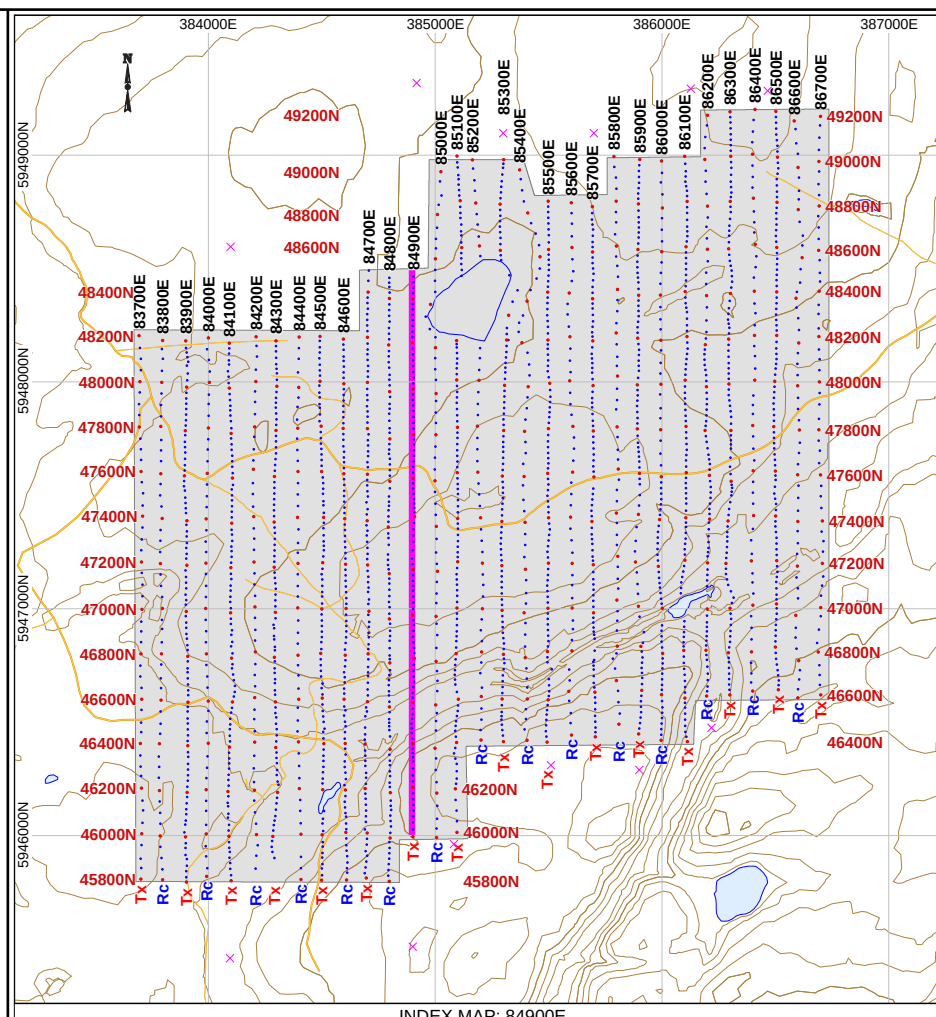
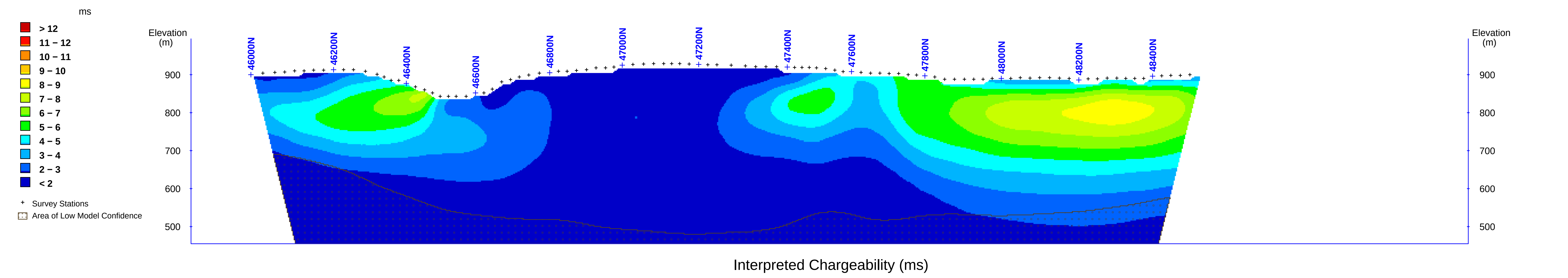
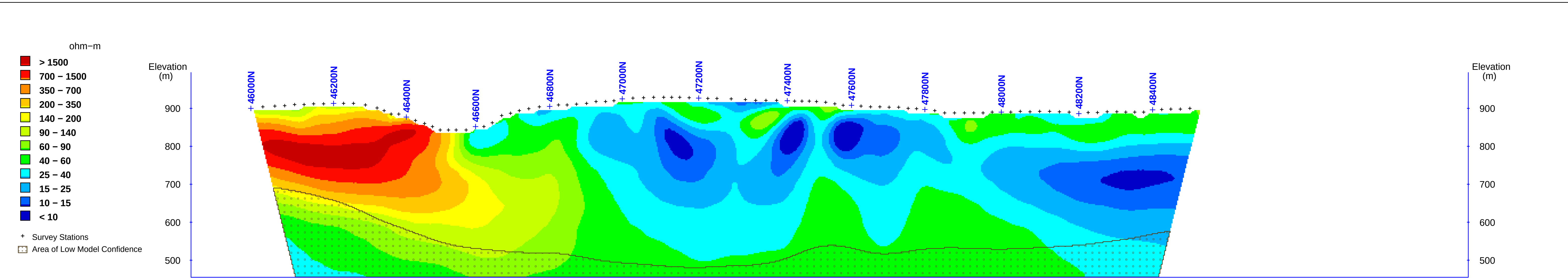
Resistivity: Modified Log-Linear
Chargeability: Linear

0 100 200 300 400
meters

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Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 84800E

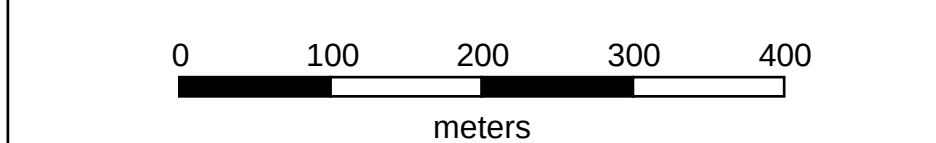


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

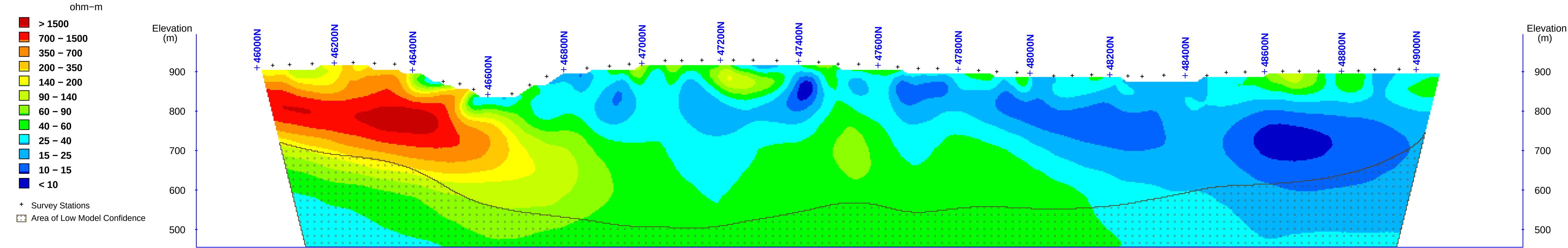
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



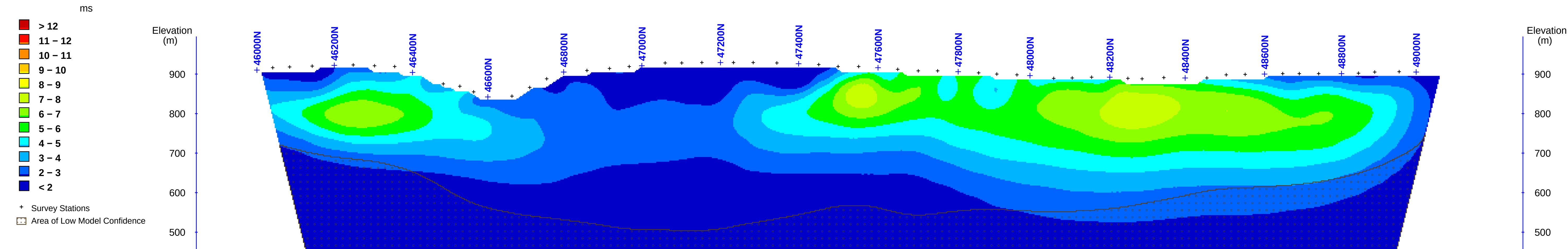
Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

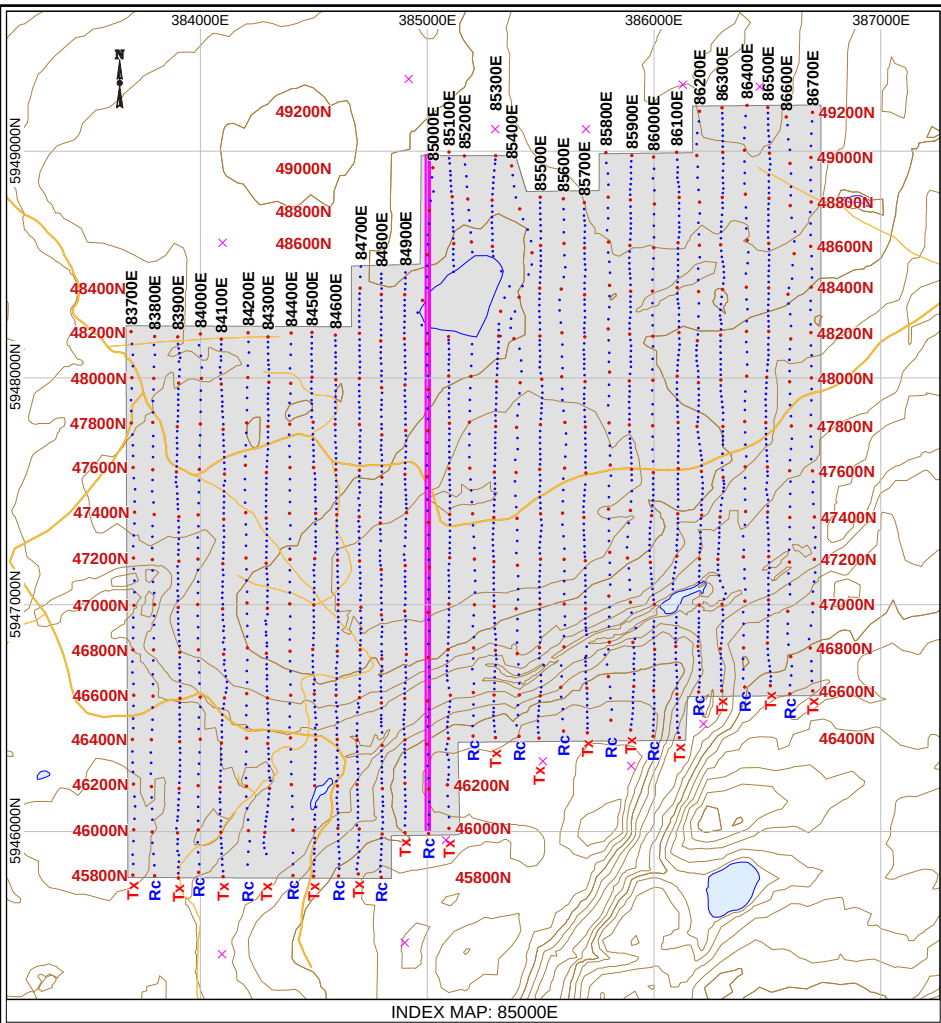
Cross Section Map
Section: 84900E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

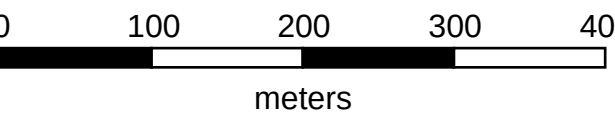


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

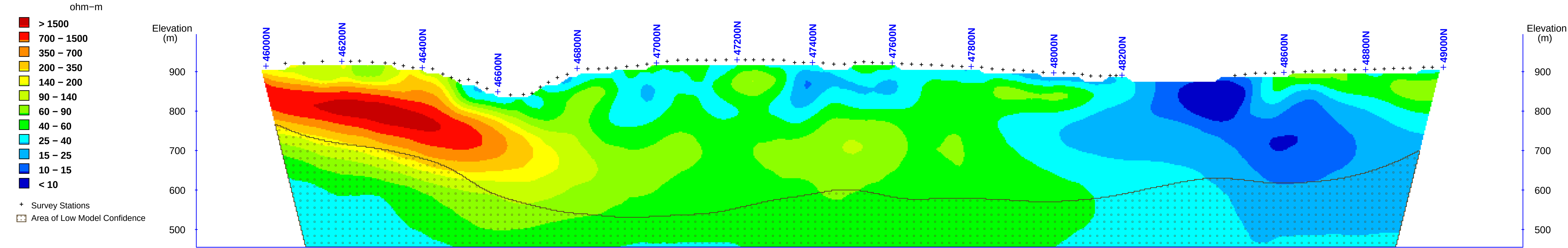
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



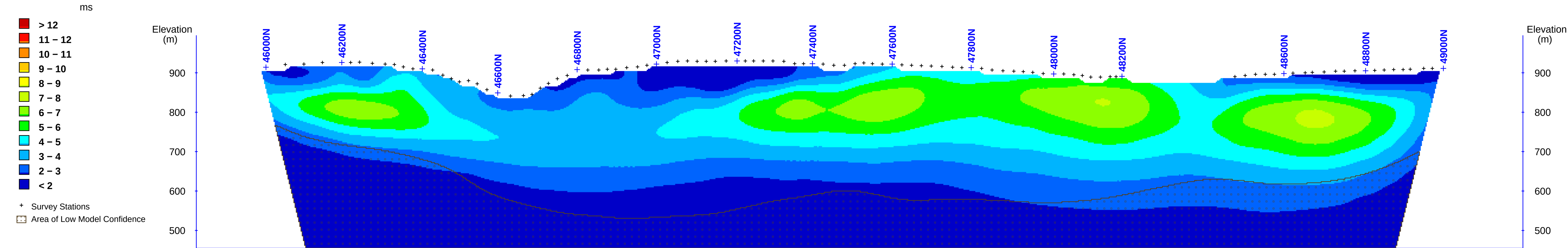
Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

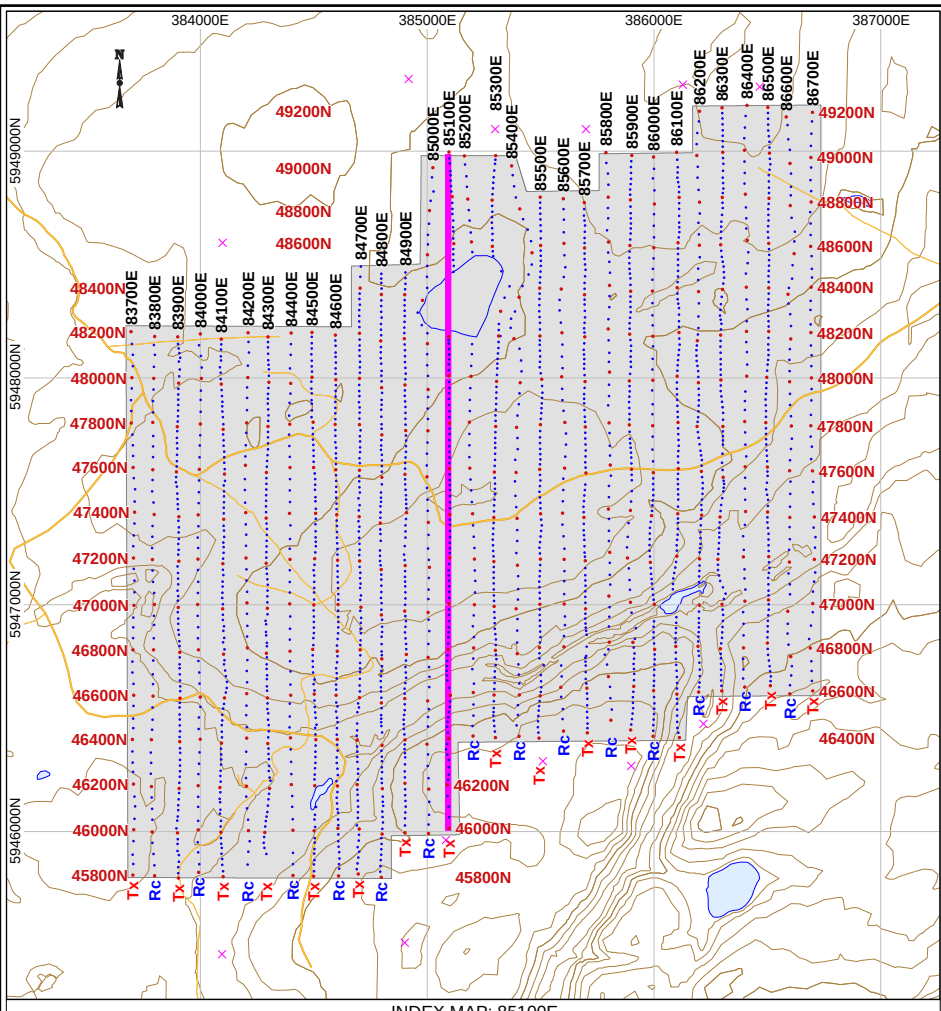
Cross Section Map
Section: 85000E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

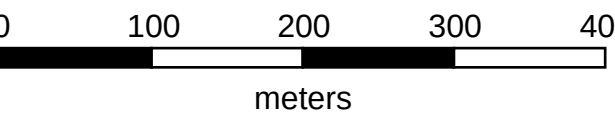


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

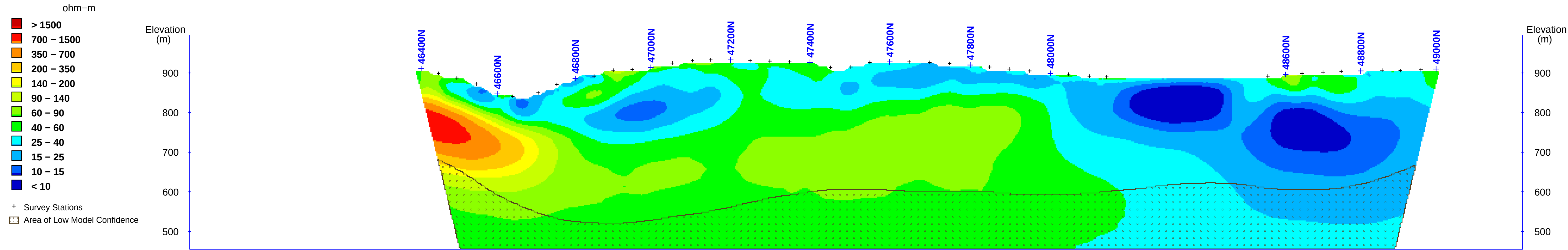
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



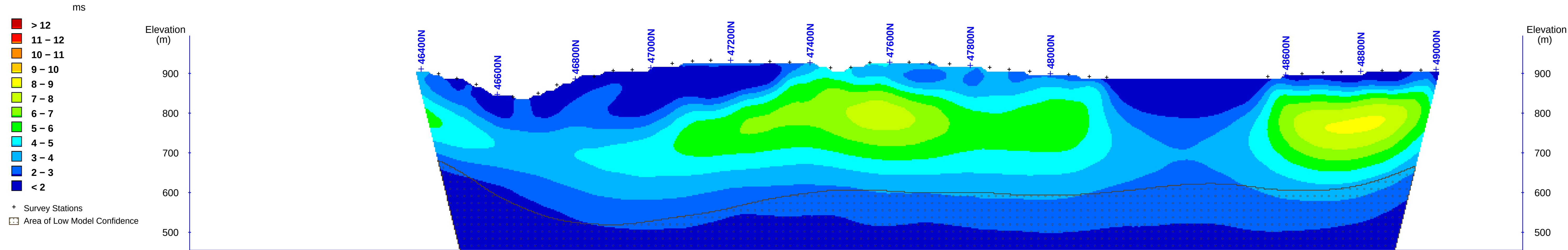
Venerable Ventures Ltd.
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Vanderhoof, B.C., Canada

3D Inversion Models
of
Interpreted
Resistivity & Chargeability

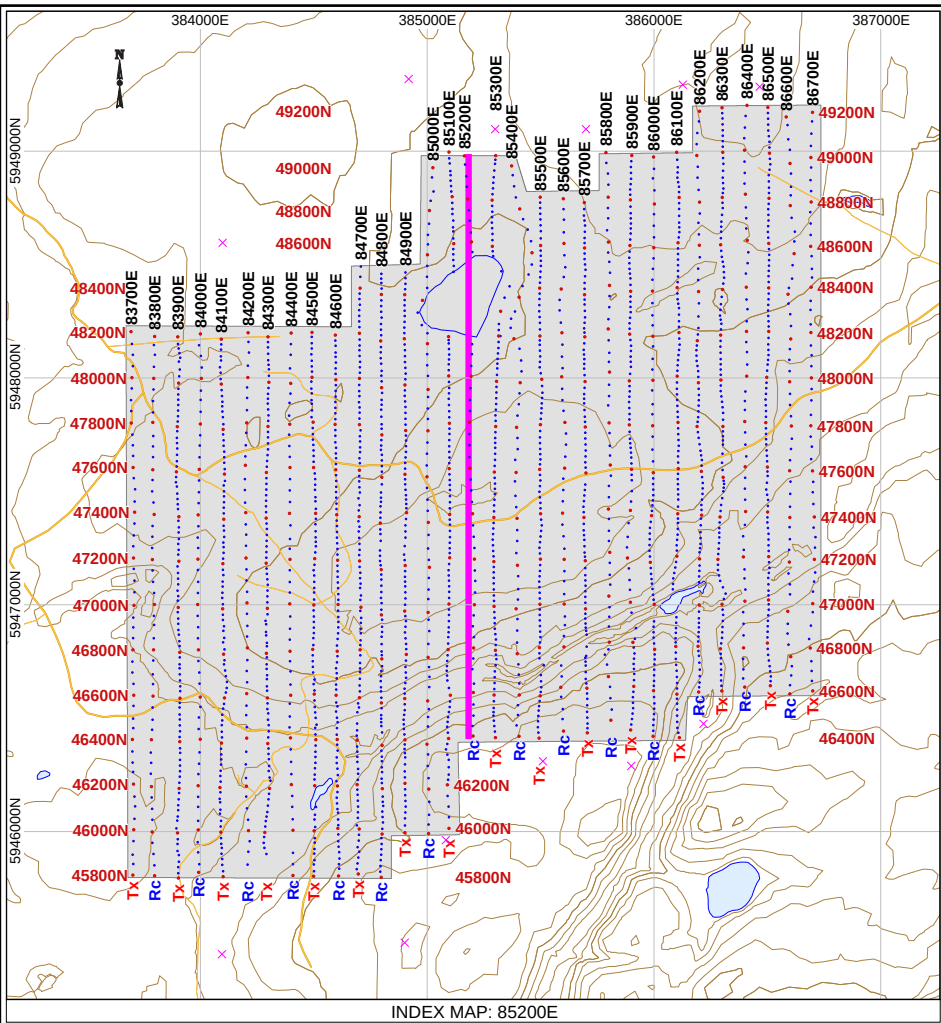
Cross Section Map
Section: 85100E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

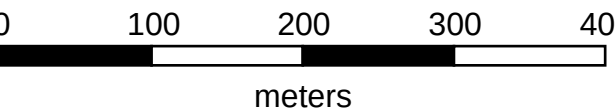


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

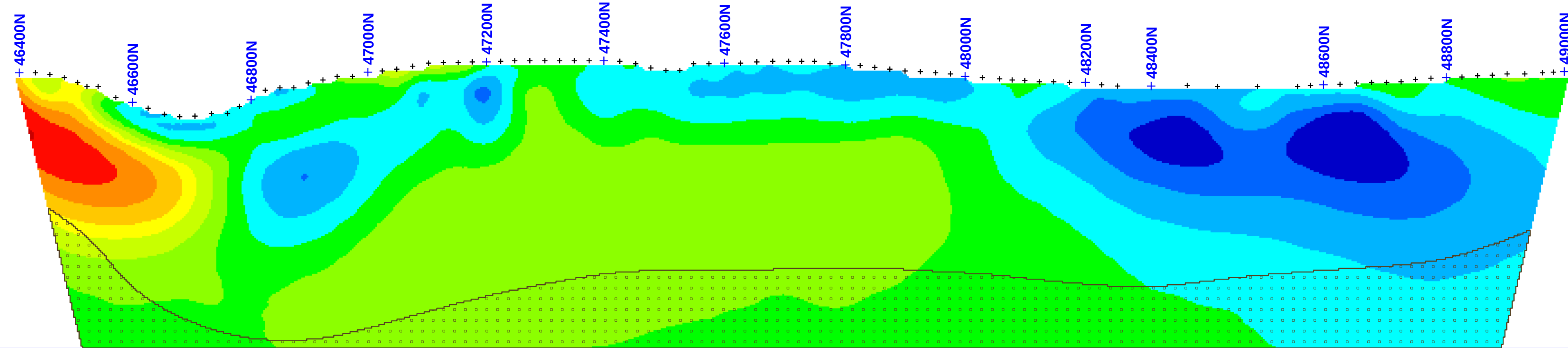
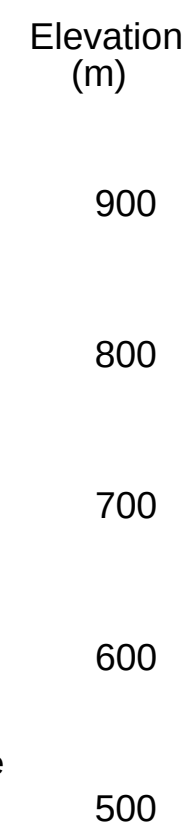
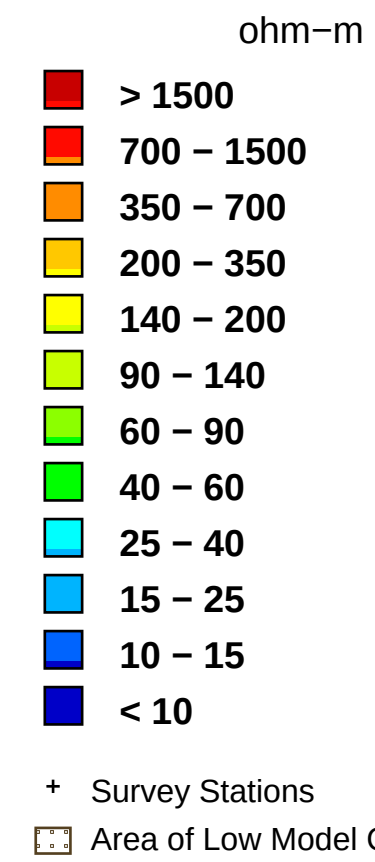
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



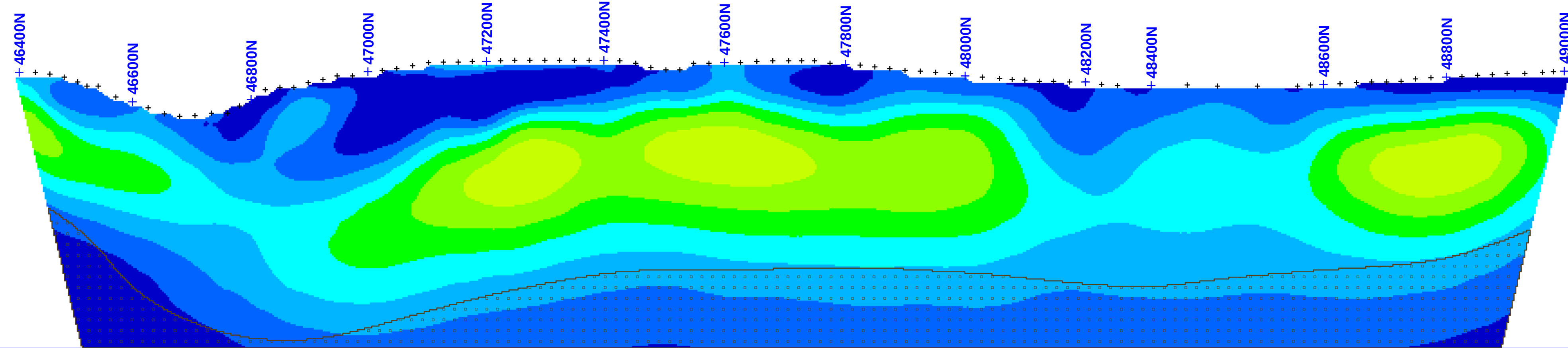
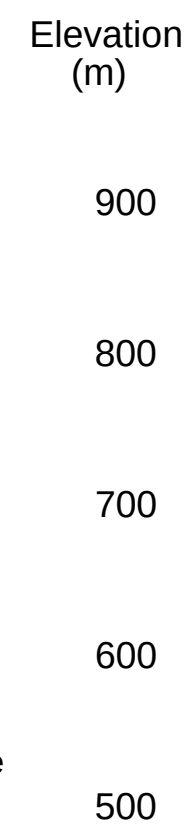
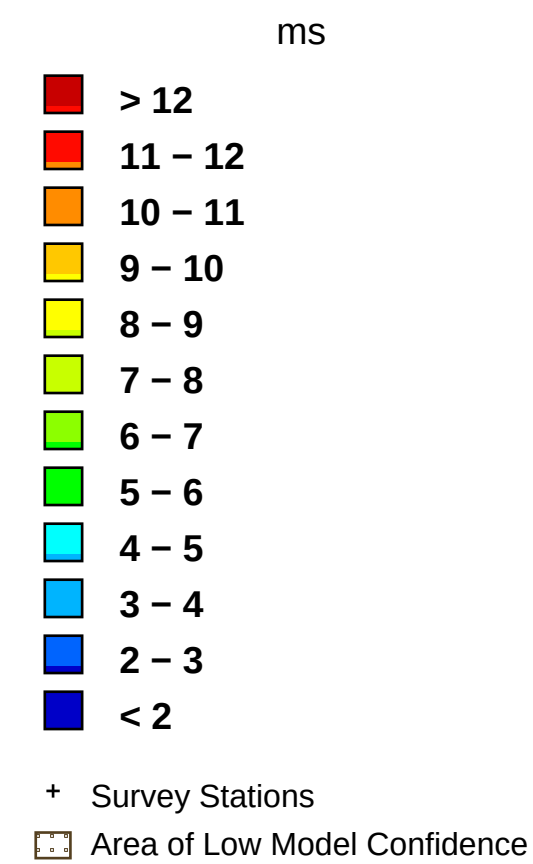
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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

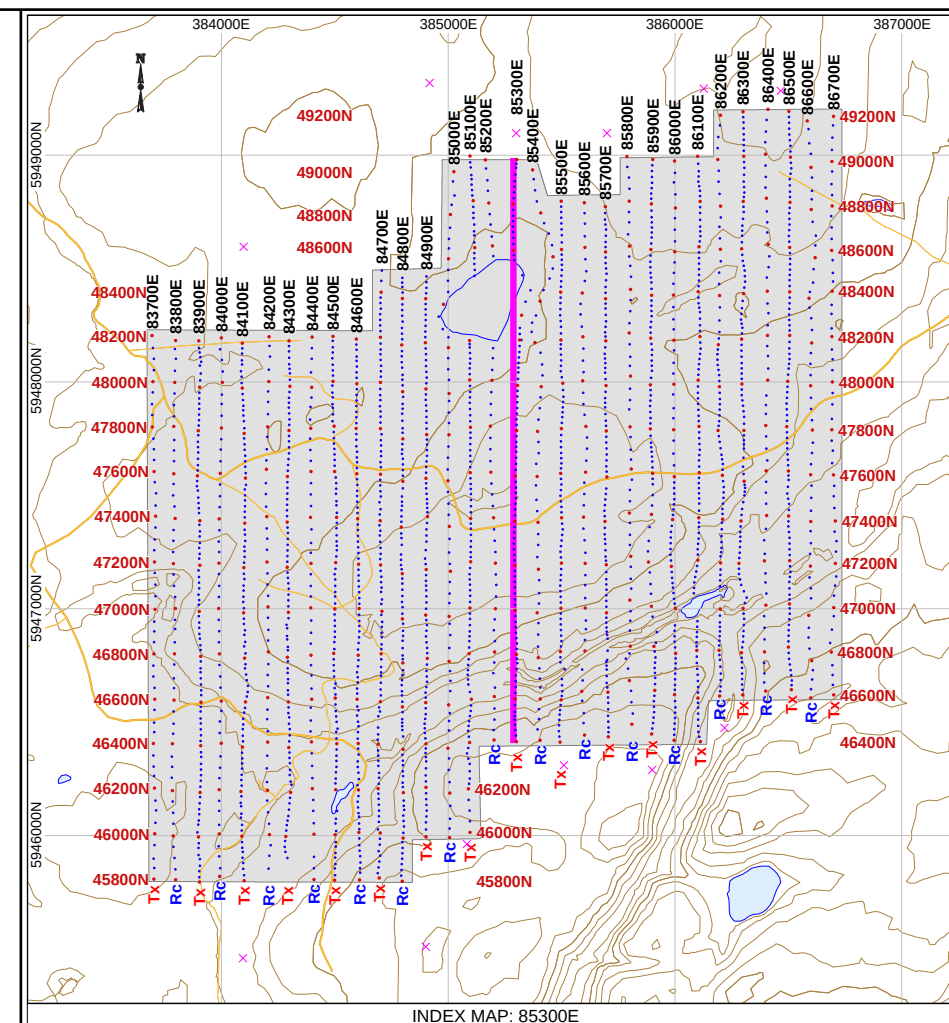
Cross Section Map
Section: 85200E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

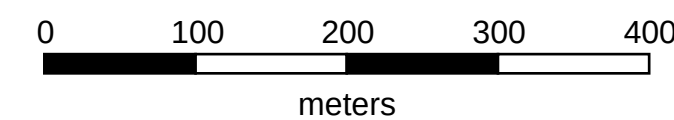


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

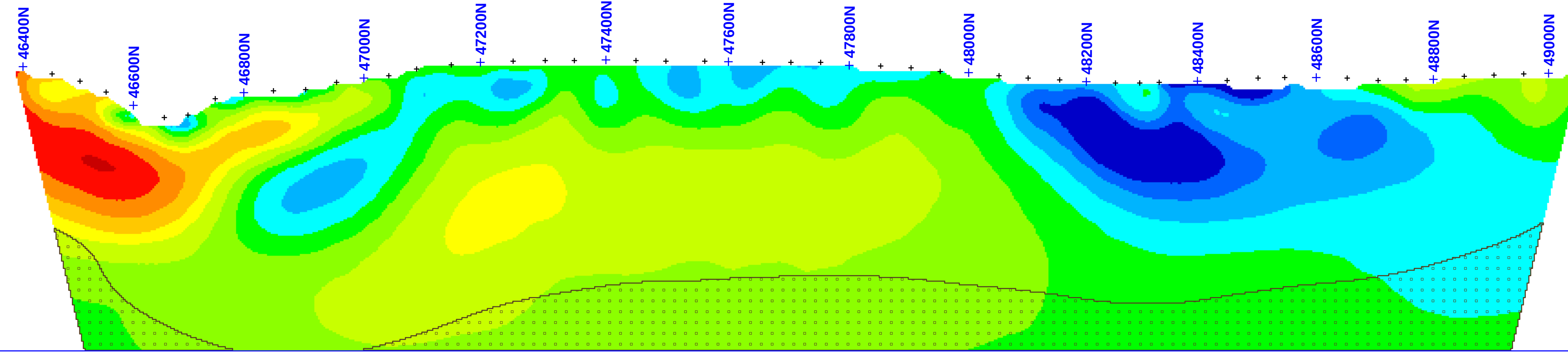
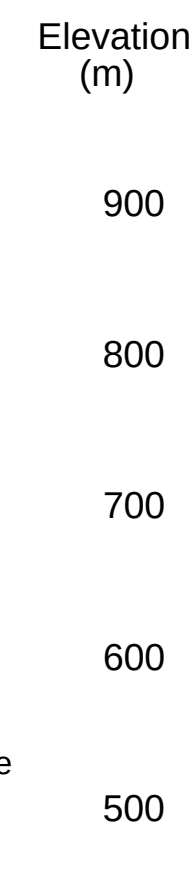
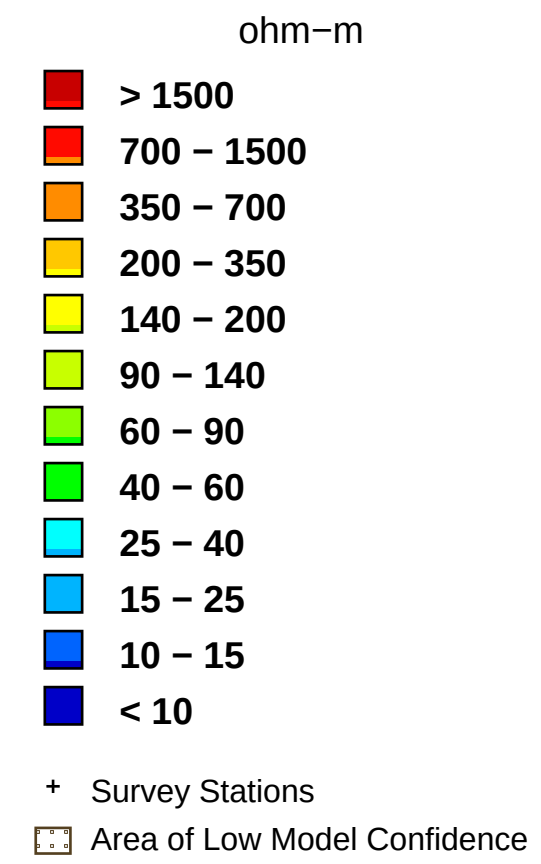
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



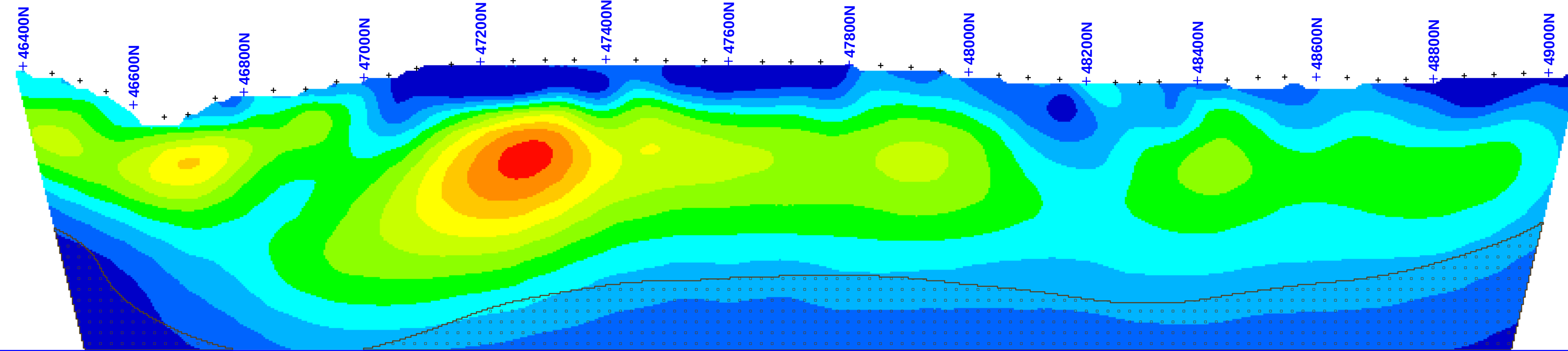
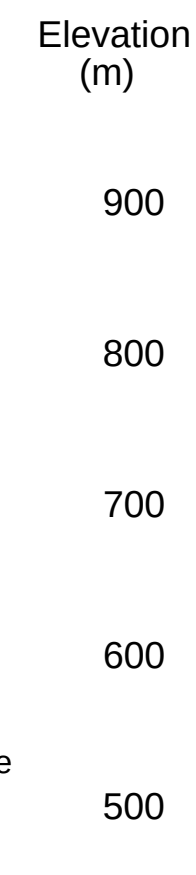
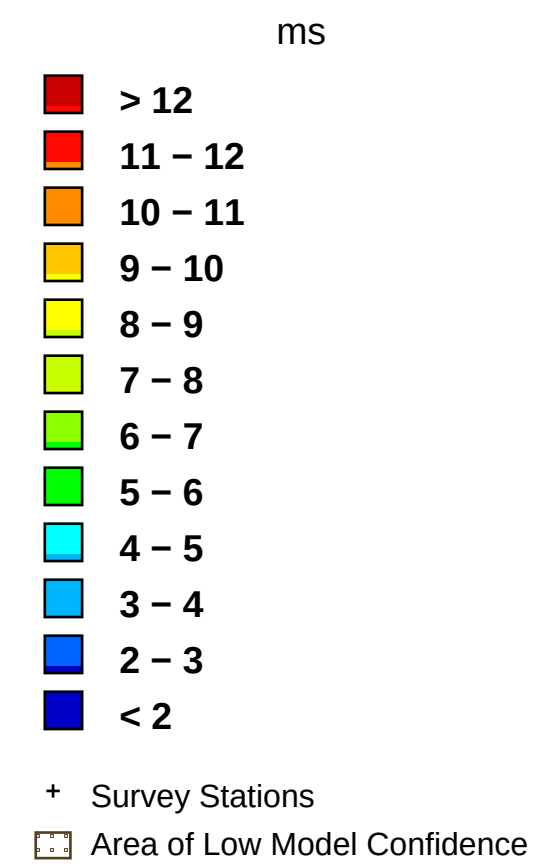
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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

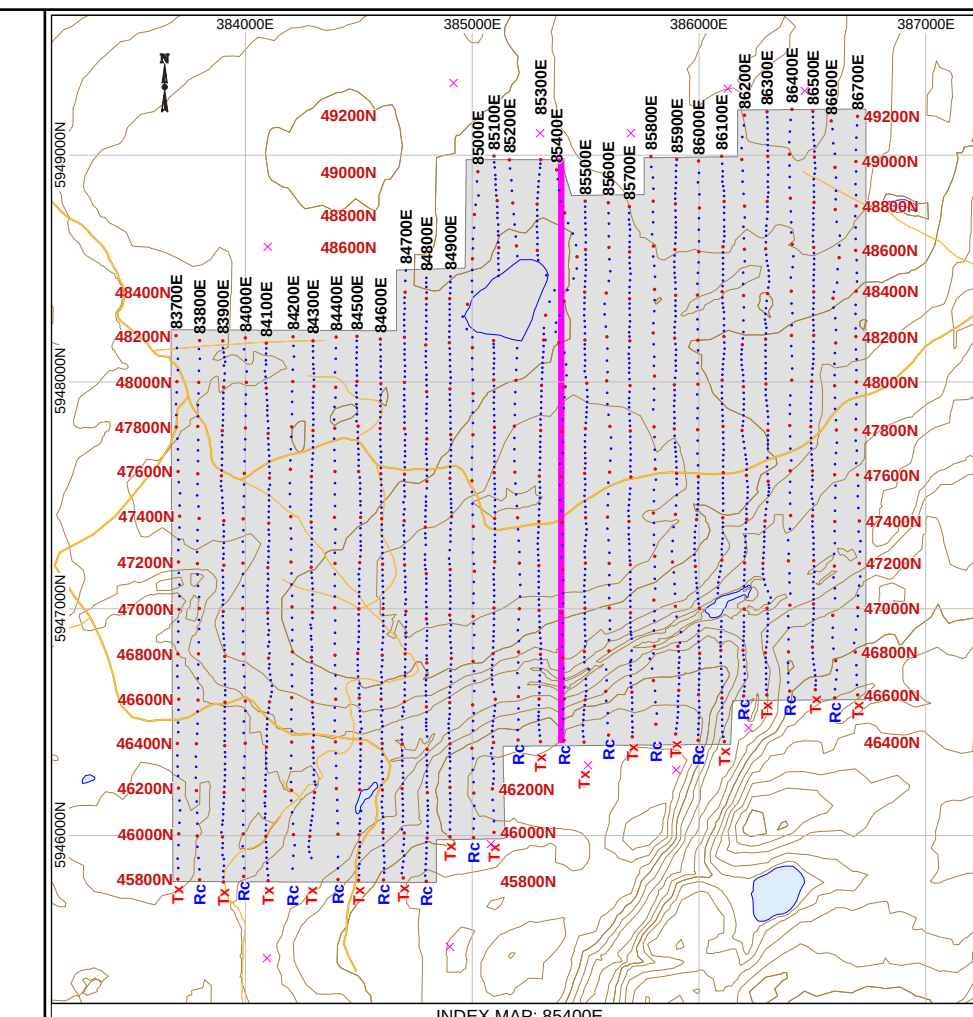
Cross Section Map
Section: 85300E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

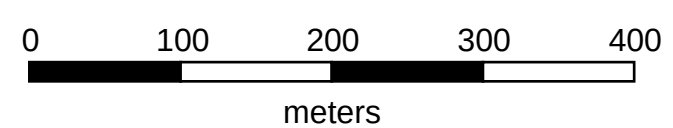


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

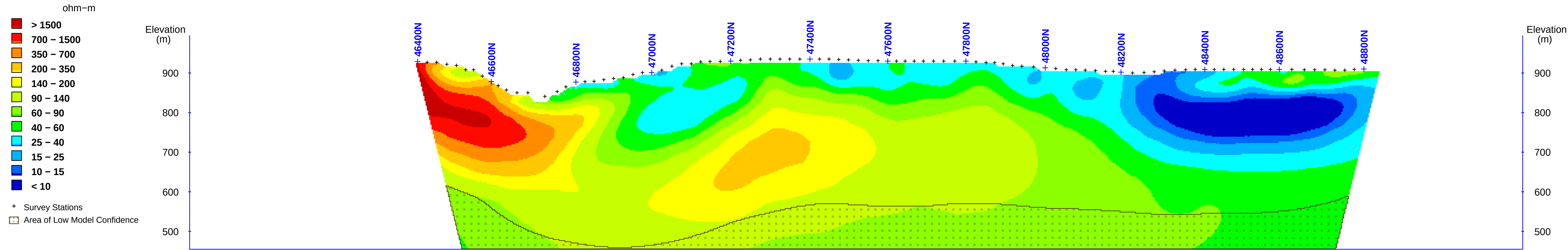
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



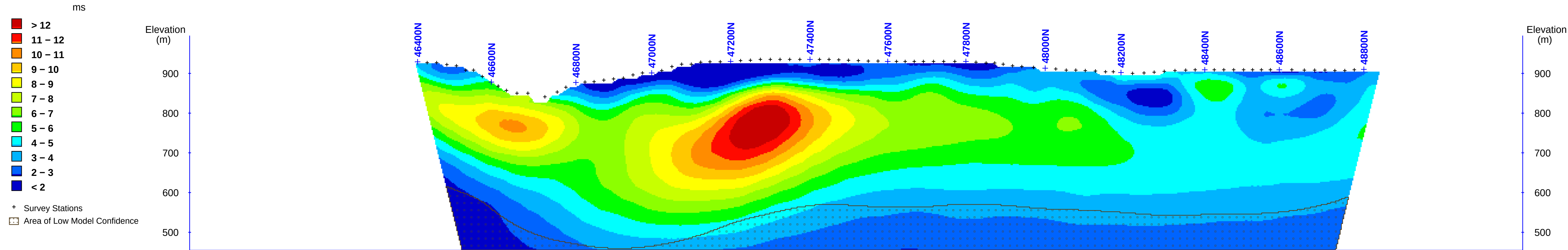
Venerable Ventures Ltd.
Trout Property
Vanderhoof, B.C., Canada

**3D Inversion Models
of
Interpreted
Resistivity & Chargeability**

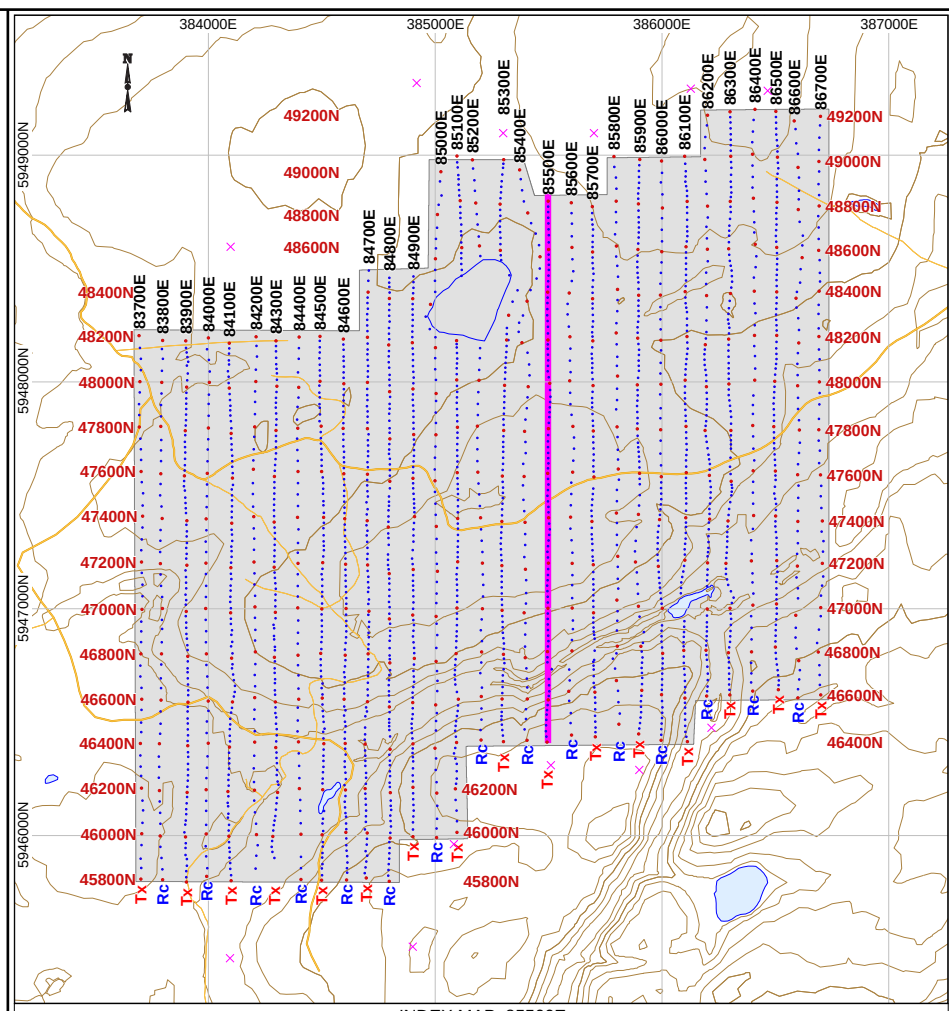
Cross Section Map
Section: 85400E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

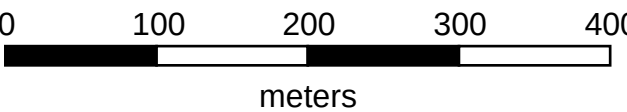


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear

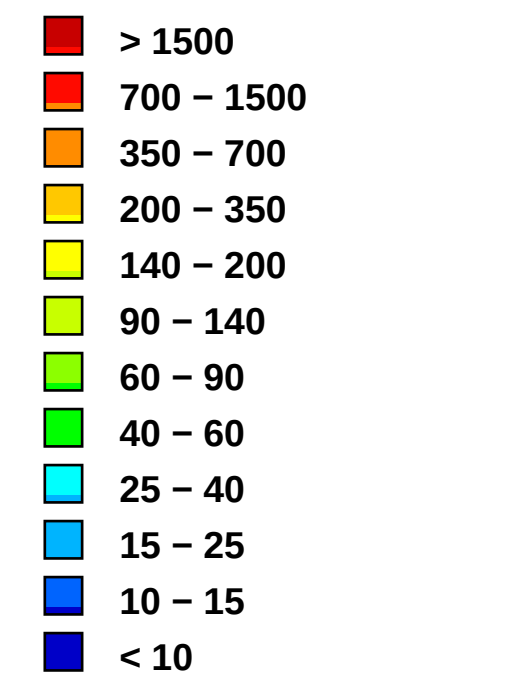


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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

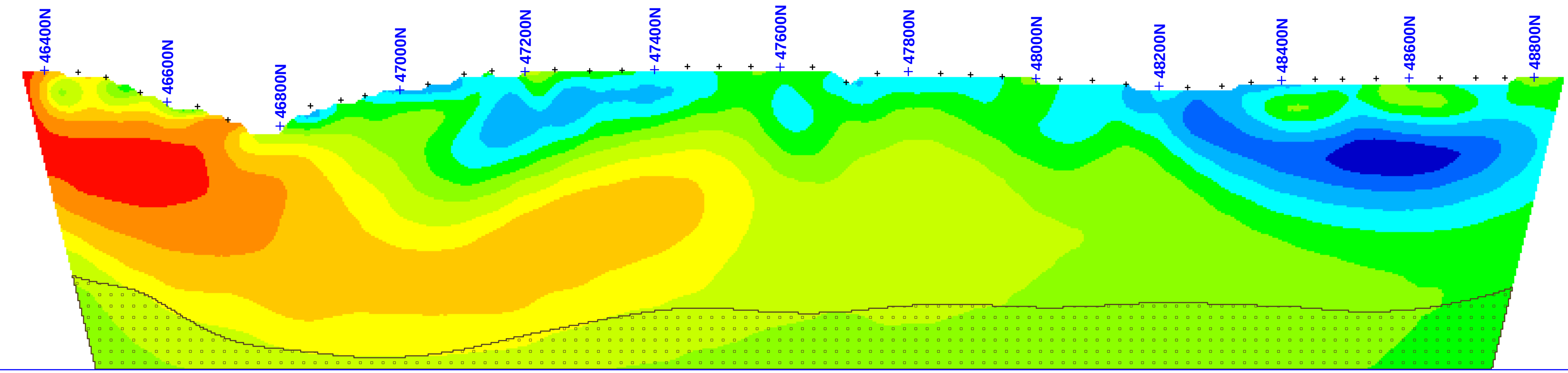
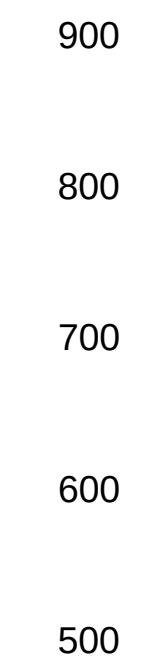
Cross Section Map
Section: 85500E

ohm-m



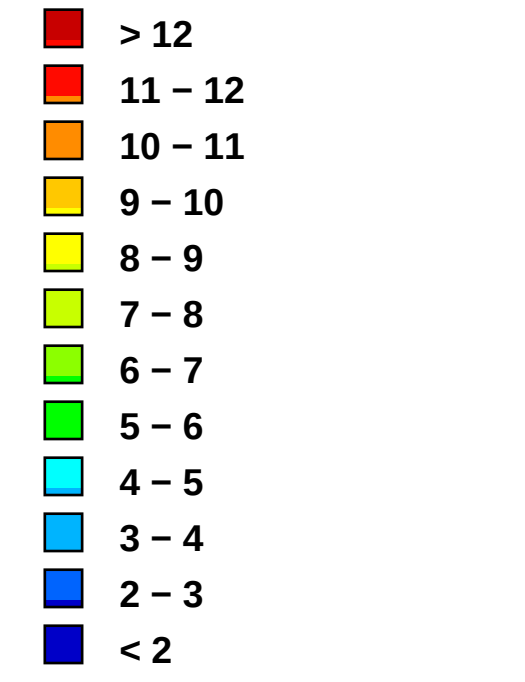
+ Survey Stations
Area of Low Model Confidence

Elevation
(m)



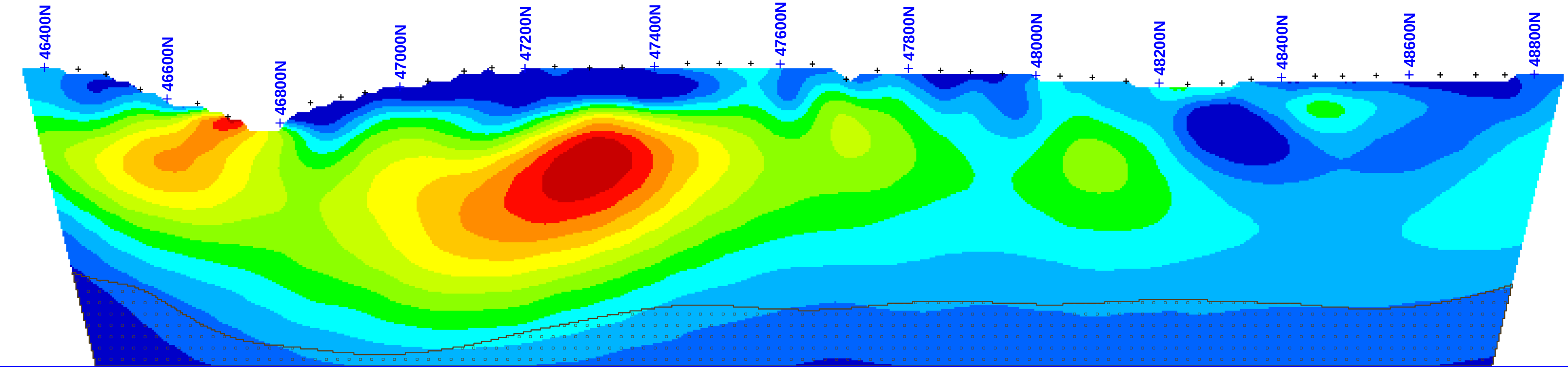
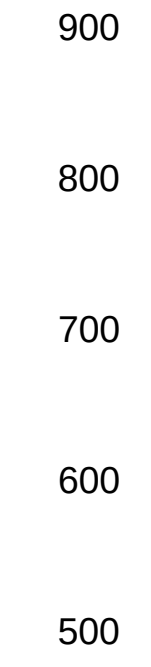
Interpreted Resistivity (ohm-m)

ms

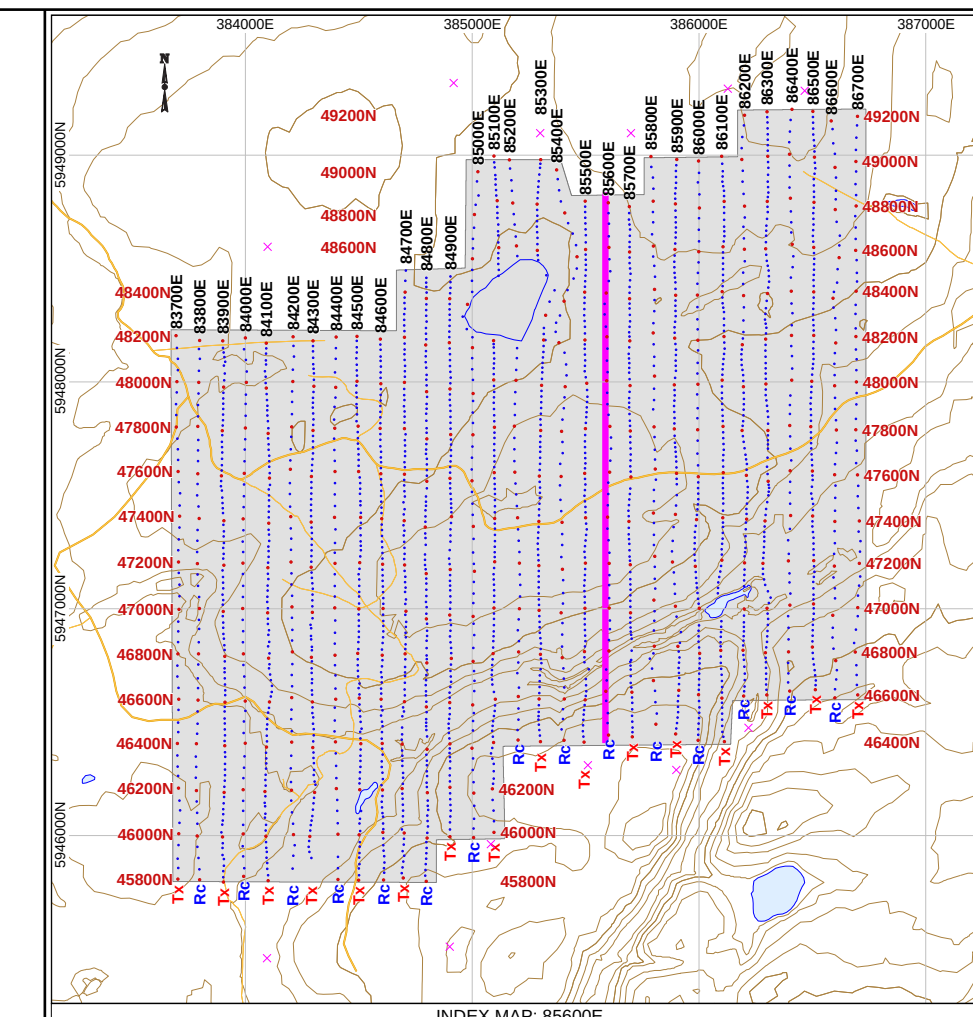


+ Survey Stations
Area of Low Model Confidence

Elevation
(m)



Interpreted Chargeability (ms)

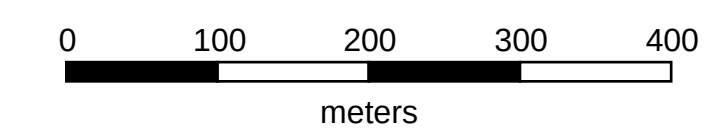


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear

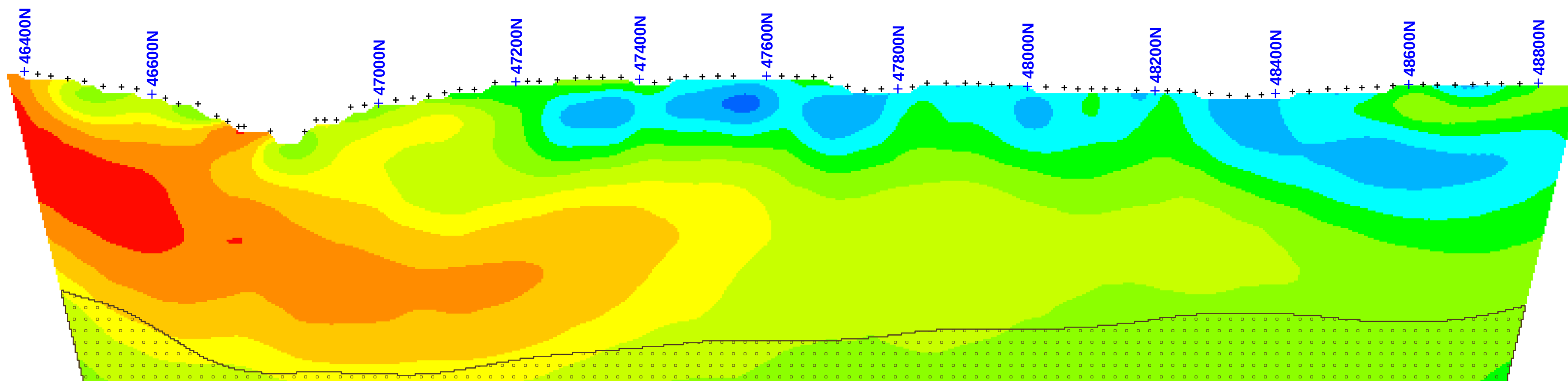
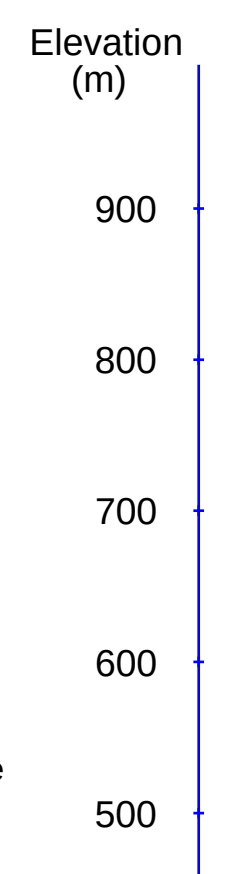
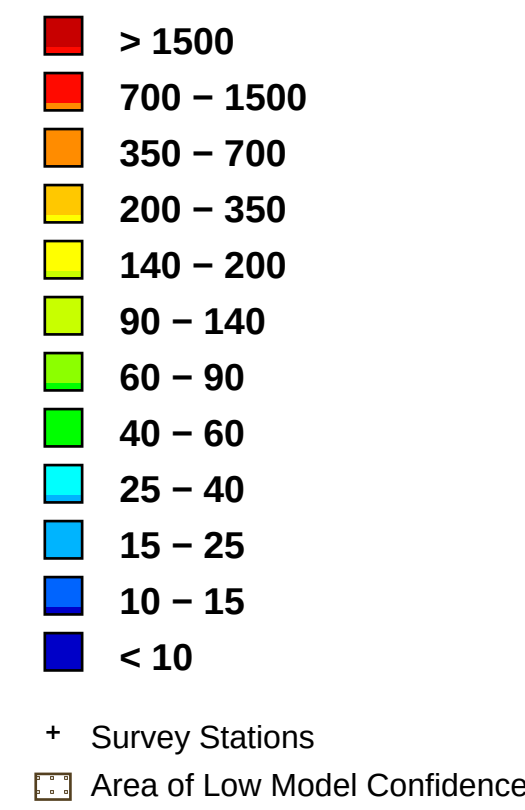


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**3D Inversion Models
of
Interpreted
Resistivity & Chargeability**

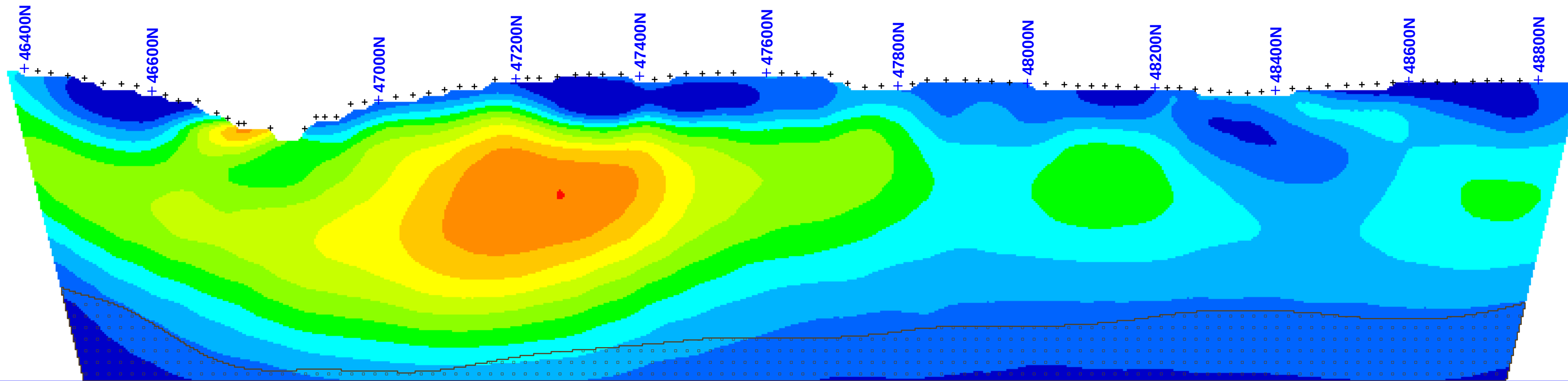
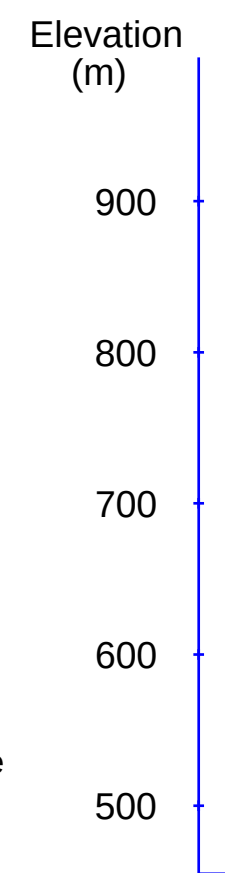
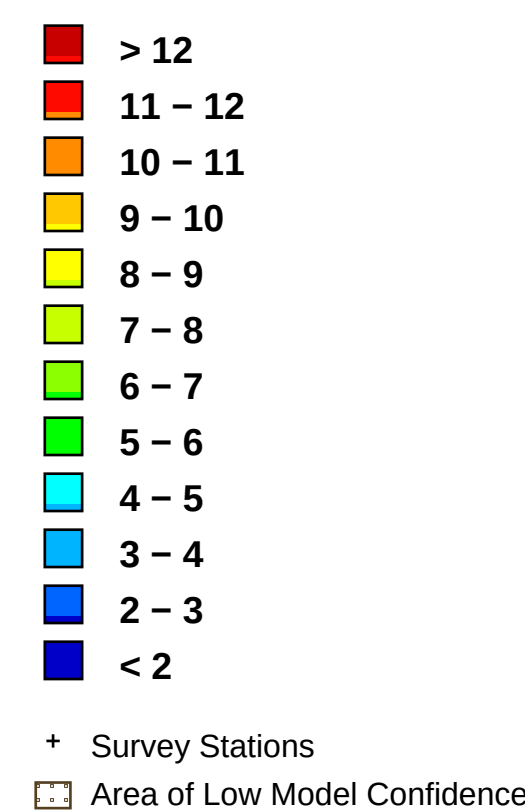
Cross Section Map
Section: 85600E

ohm-m

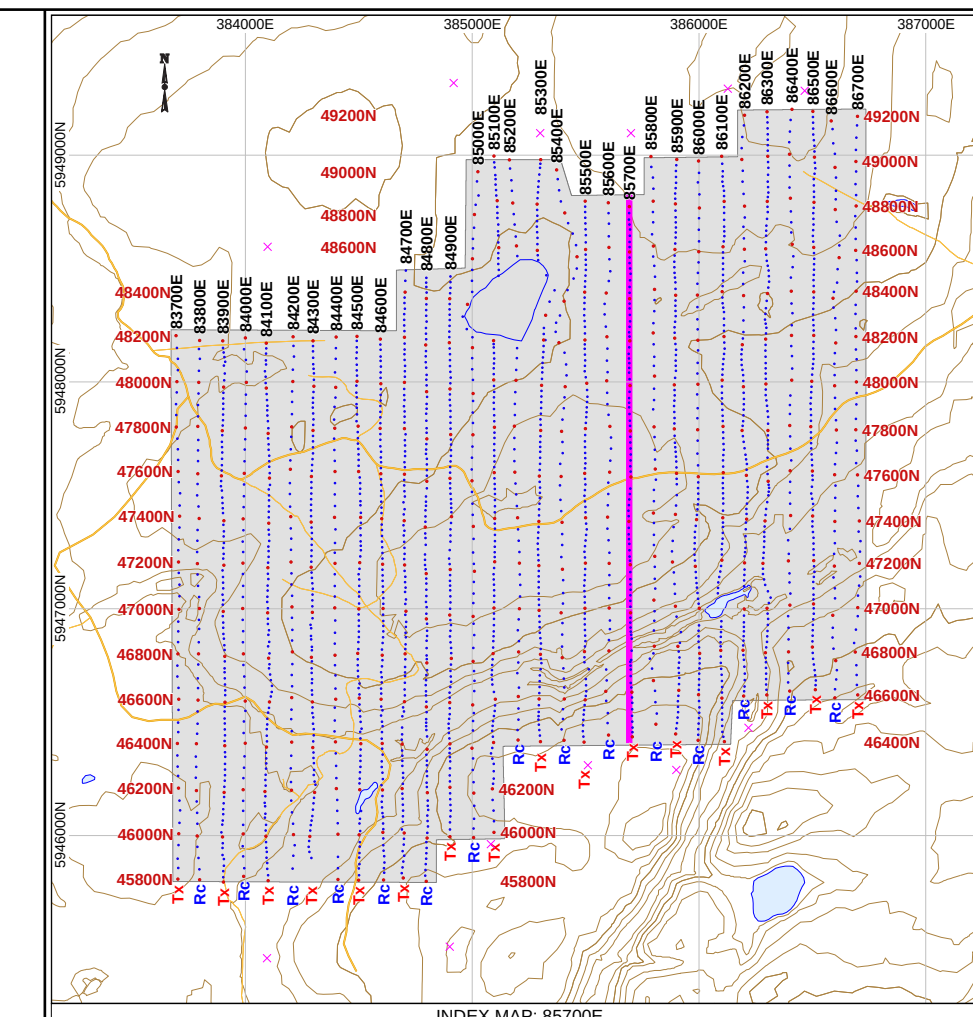


Interpreted Resistivity (ohm-m)

ms



Interpreted Chargeability (ms)

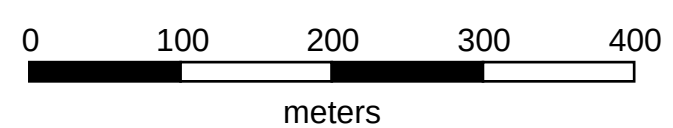


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear

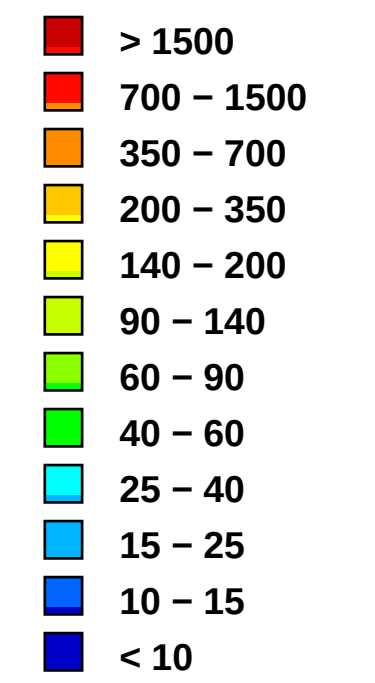


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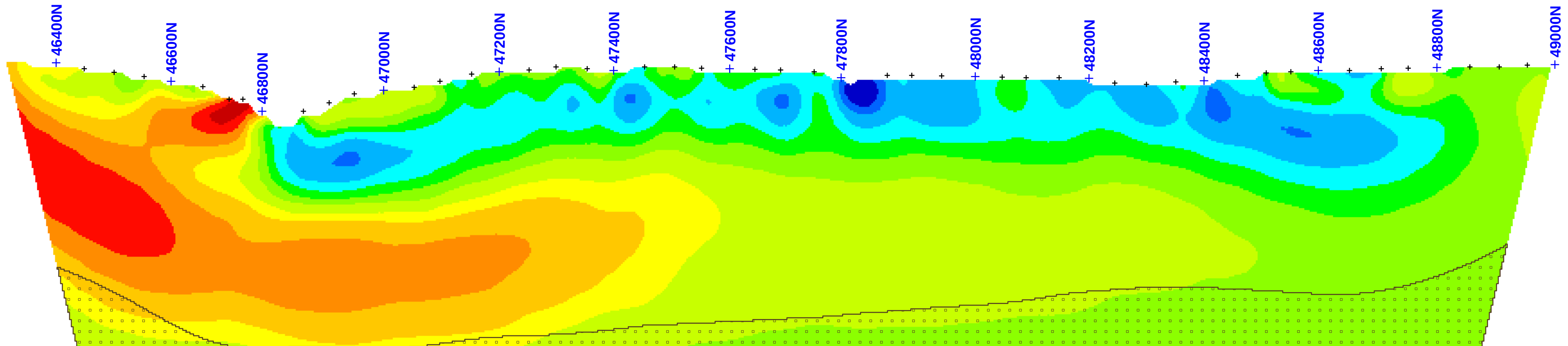
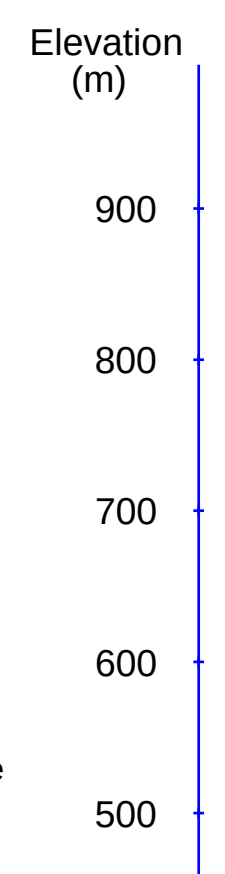
**3D Inversion Models
of
Interpreted
Resistivity & Chargeability**

Cross Section Map
Section: 85700E

ohm-m

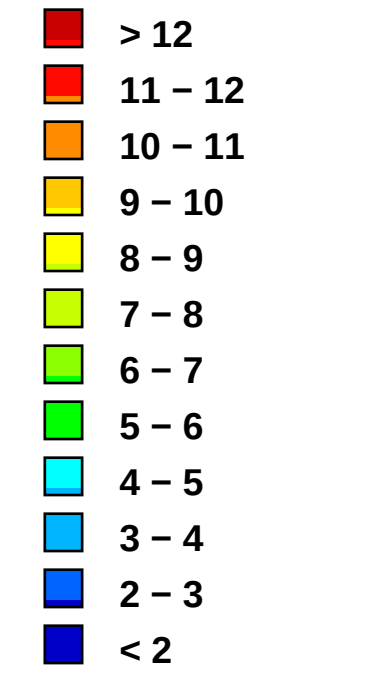


+ Survey Stations
Area of Low Model Confidence

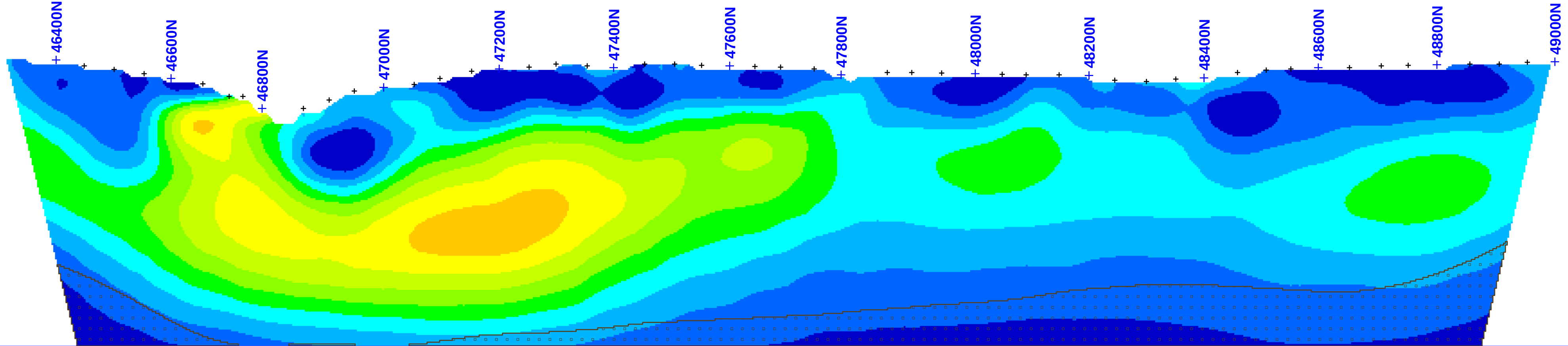
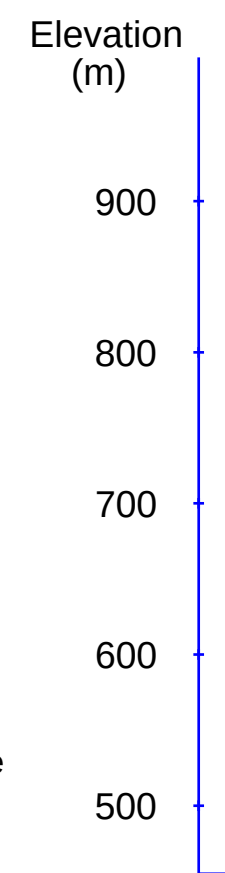


Interpreted Resistivity (ohm-m)

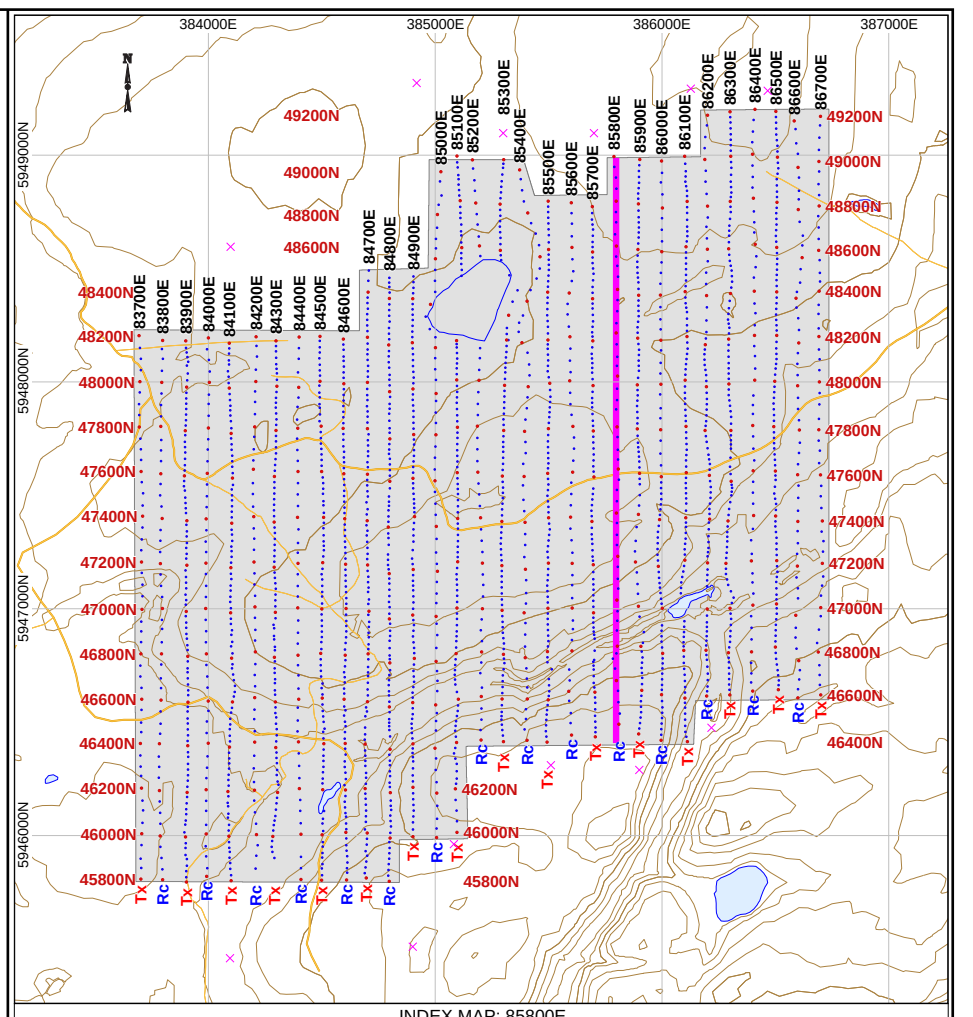
ms



+ Survey Stations
Area of Low Model Confidence



Interpreted Chargeability (ms)

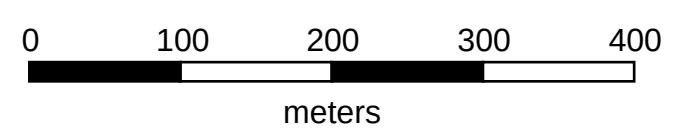


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear

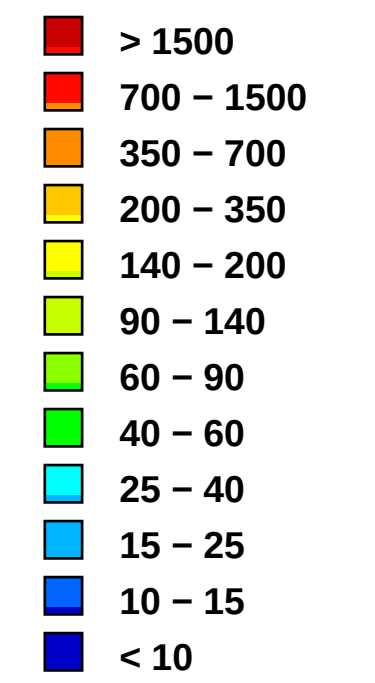


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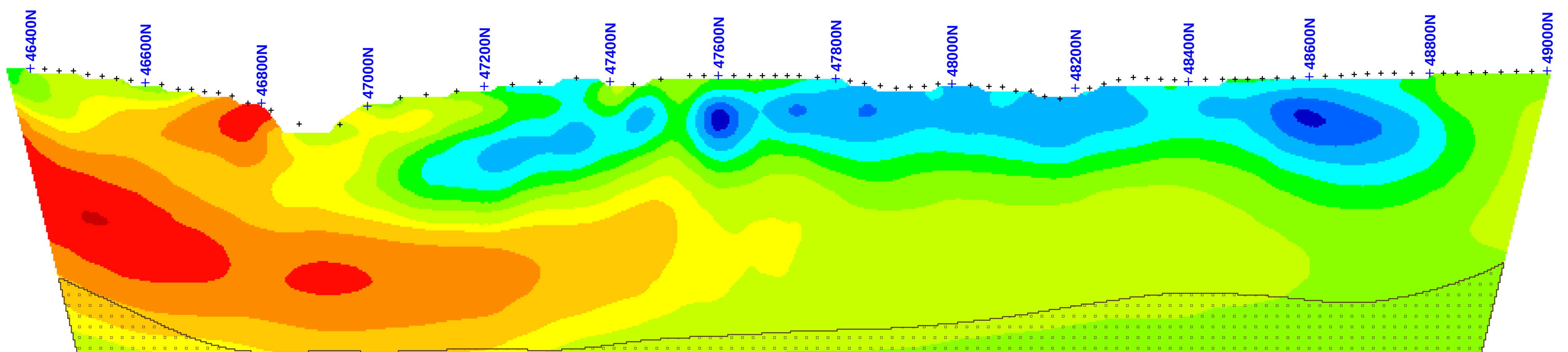
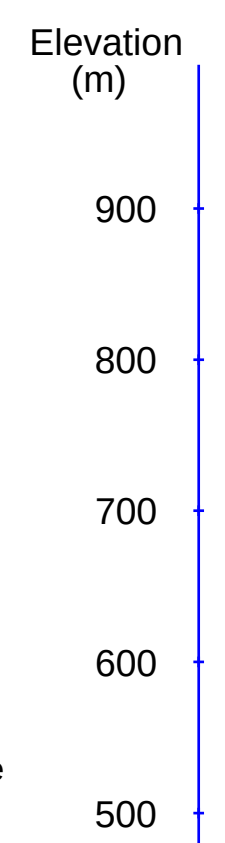
3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 85800E

ohm-m

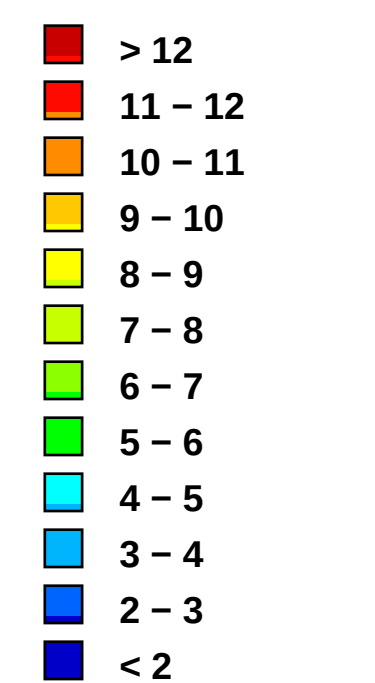


+ Survey Stations
Area of Low Model Confidence

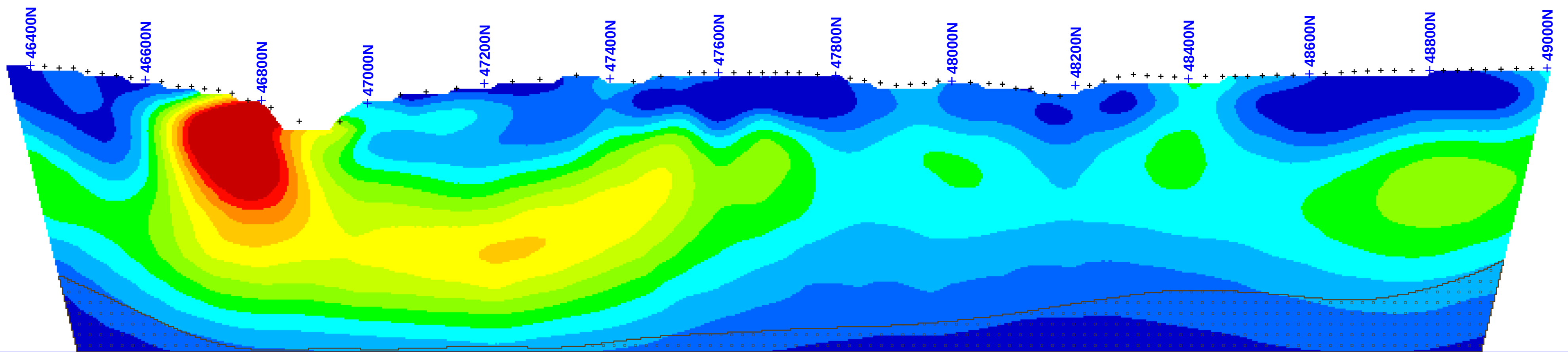
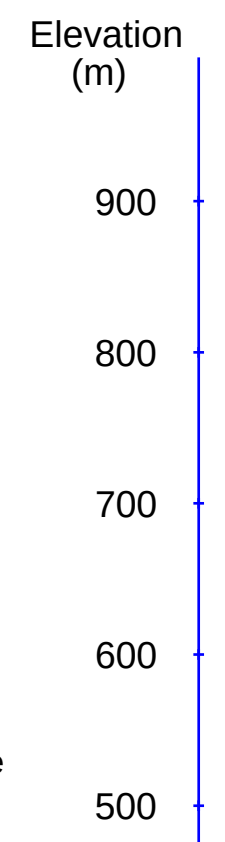


Interpreted Resistivity (ohm-m)

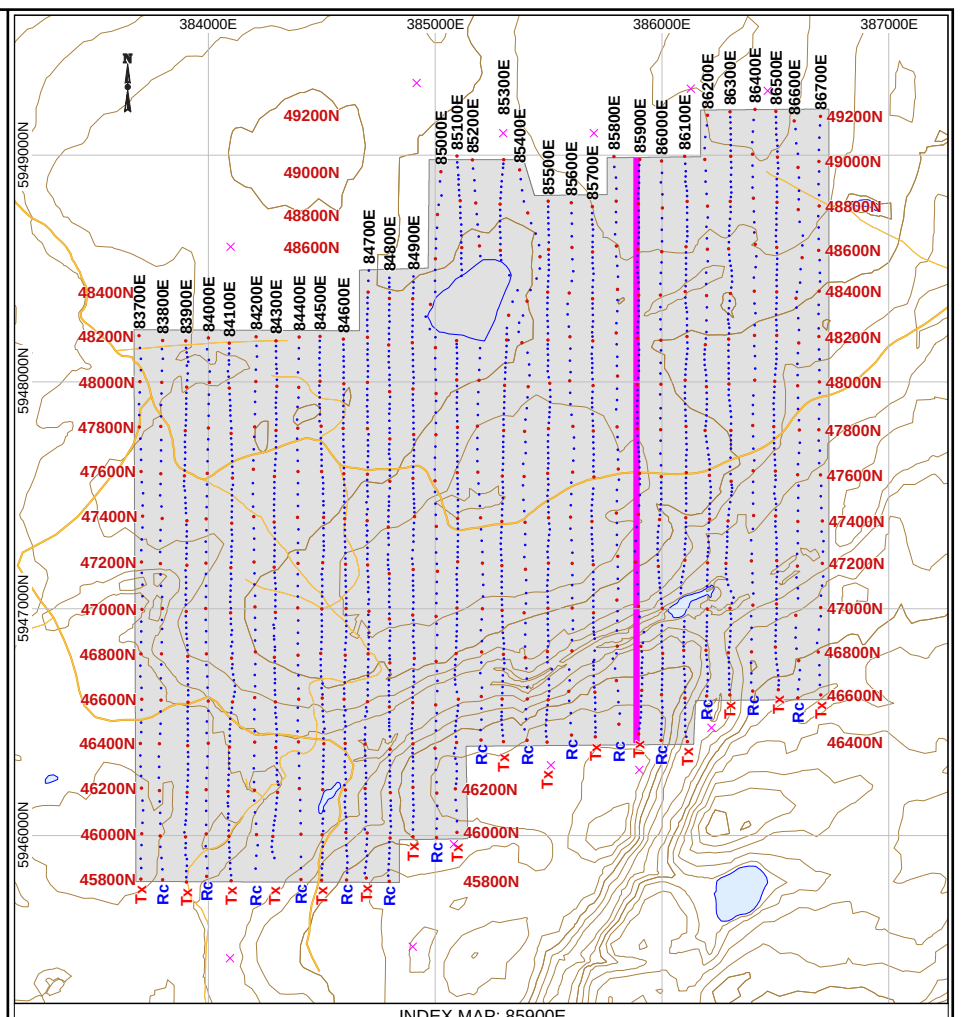
ms



+ Survey Stations
Area of Low Model Confidence



Interpreted Chargeability (ms)

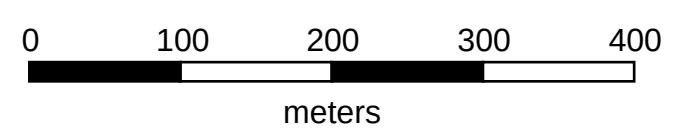


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

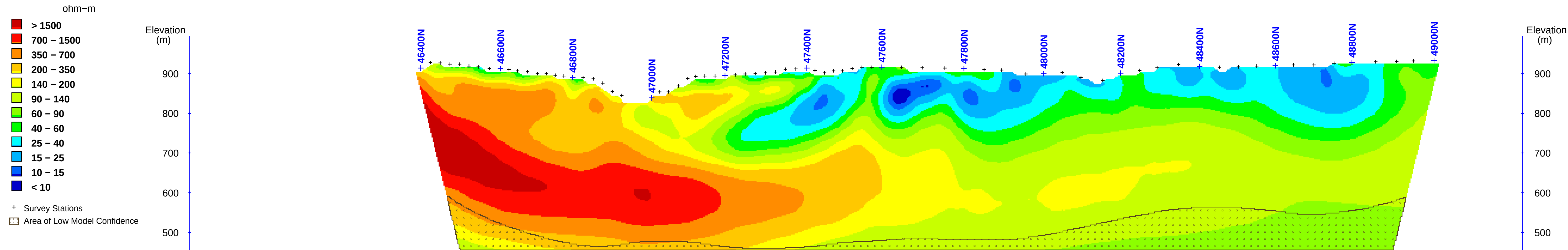
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



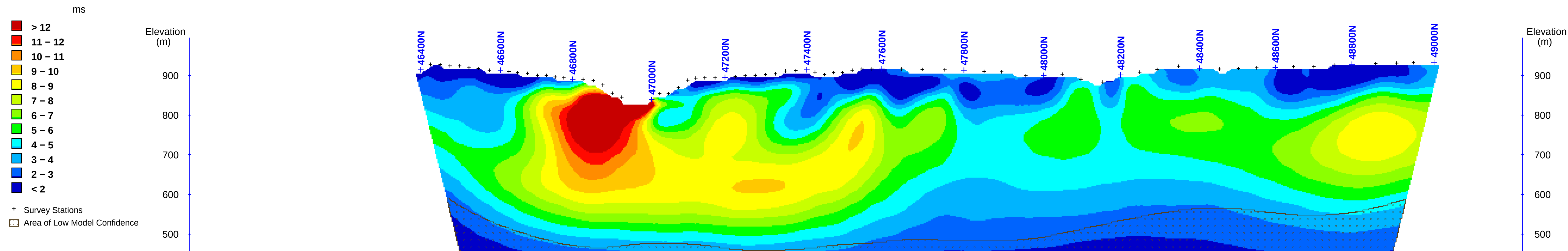
Venerable Ventures Ltd.
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**3D Inversion Models
of
Interpreted
Resistivity & Chargeability**

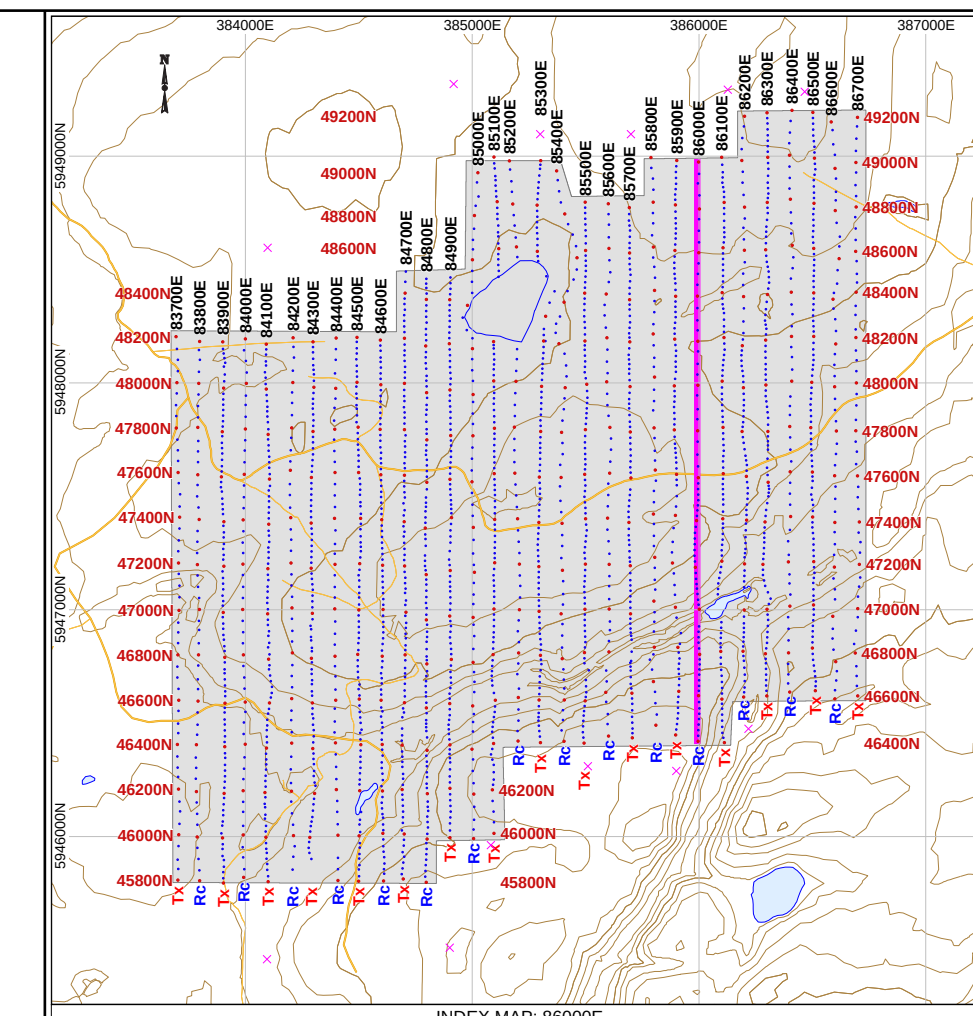
Cross Section Map
Section: 85900E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

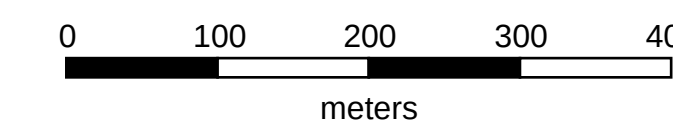


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

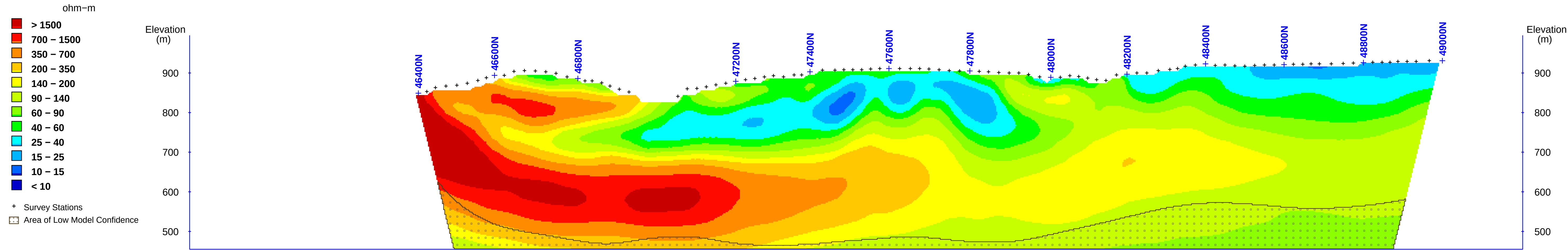
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



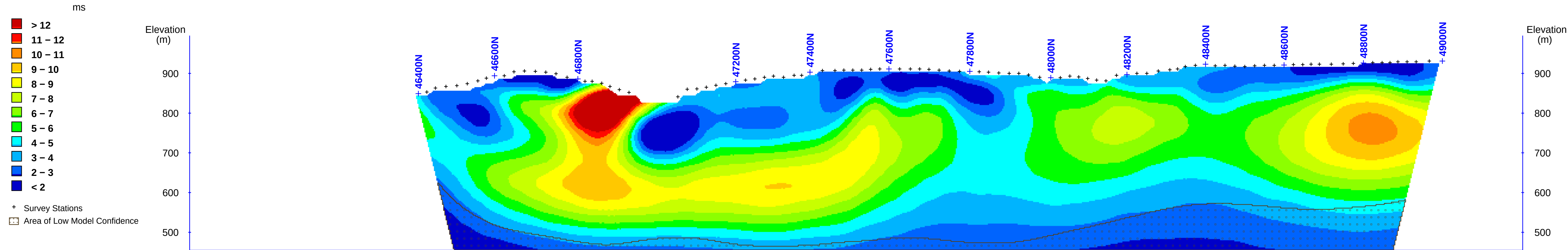
Venerable Ventures Ltd.
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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

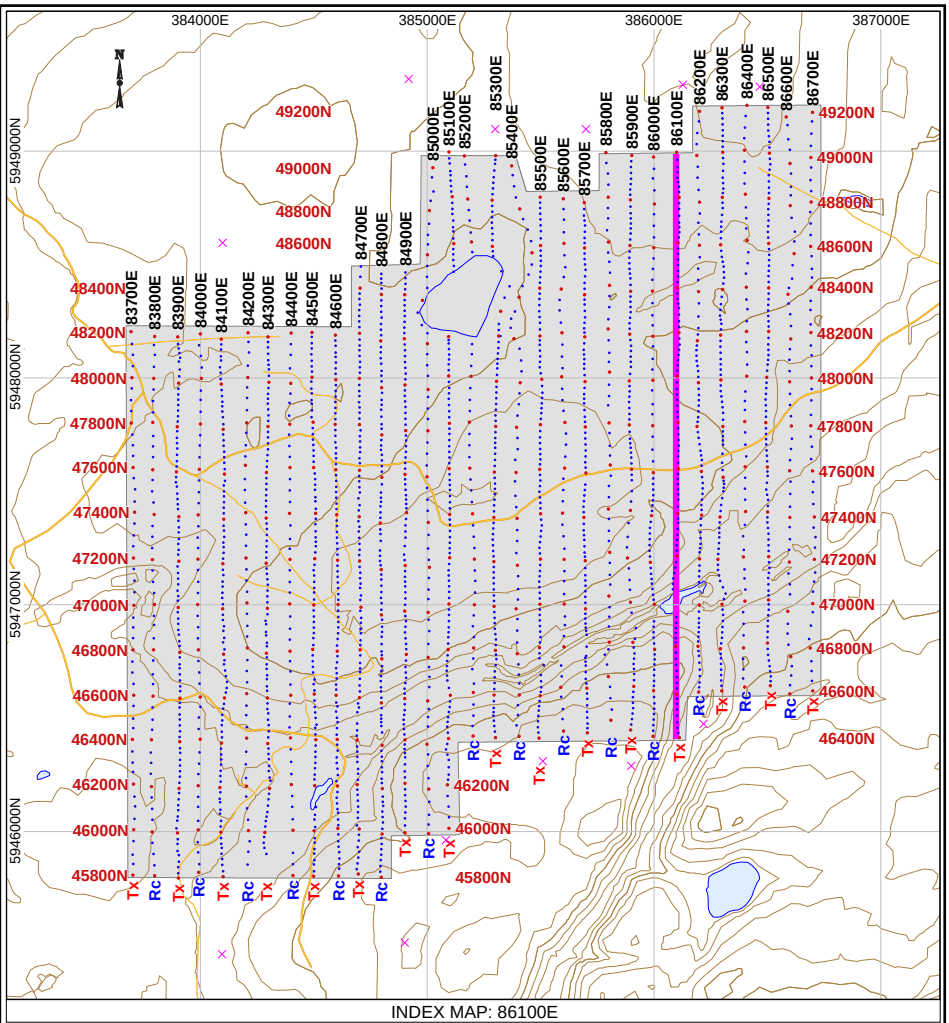
Cross Section Map
Section: 86000E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

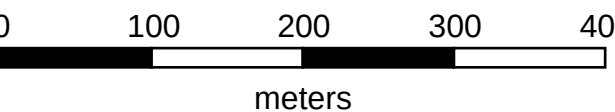


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

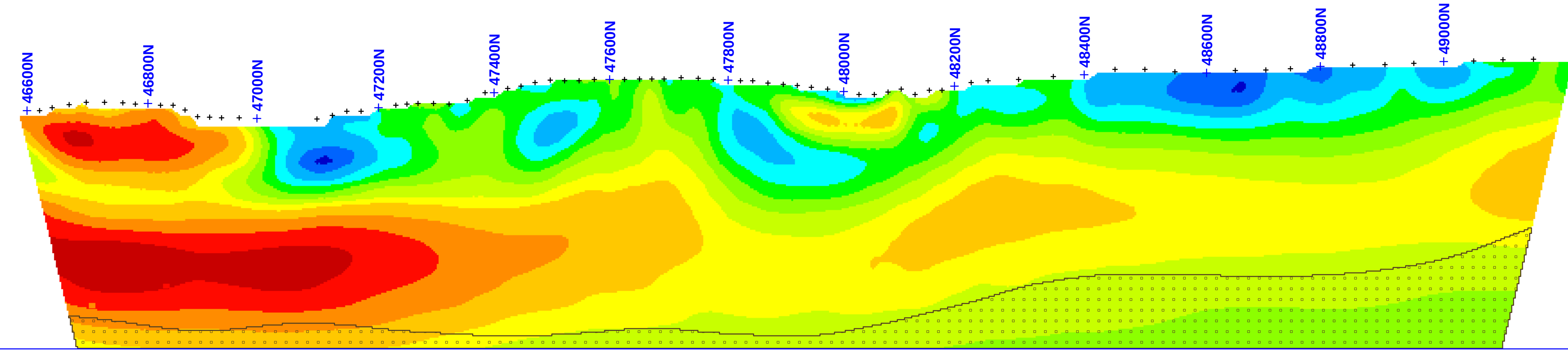
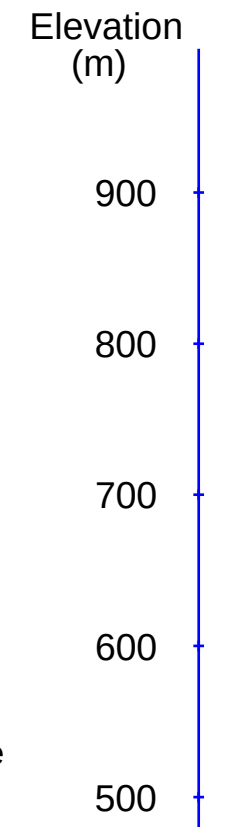
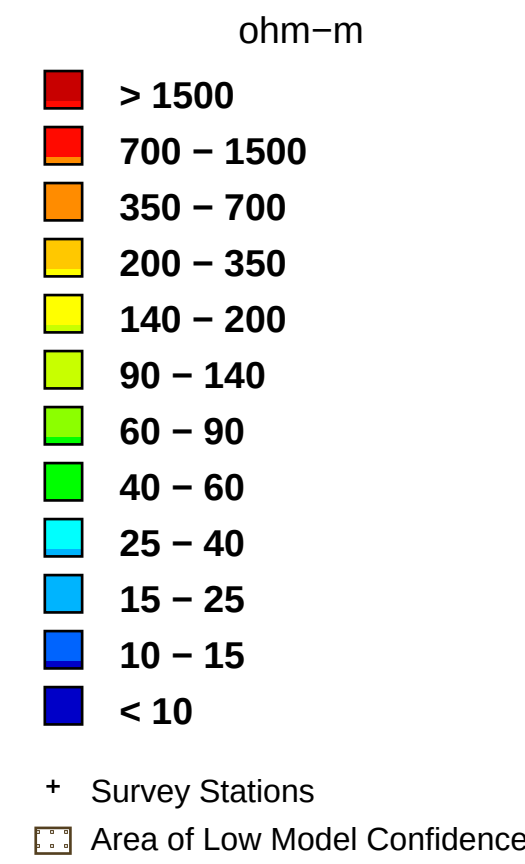
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



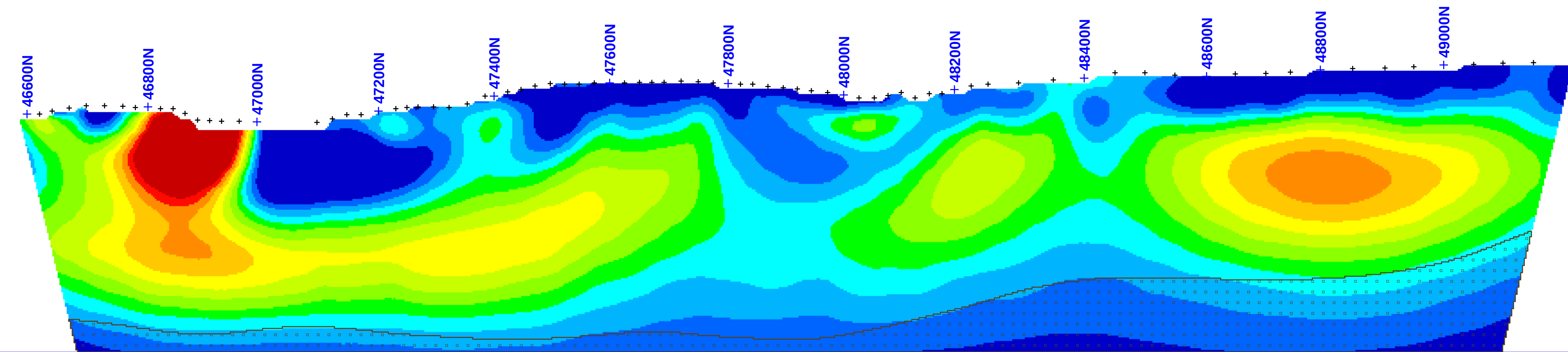
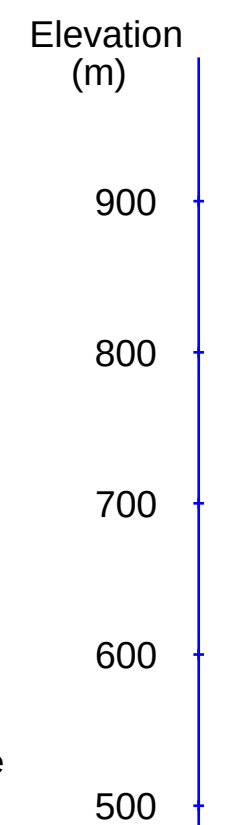
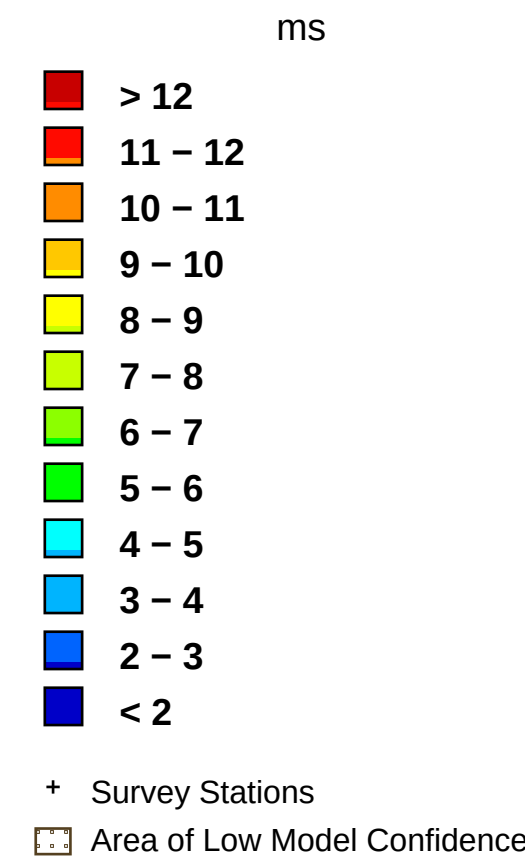
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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

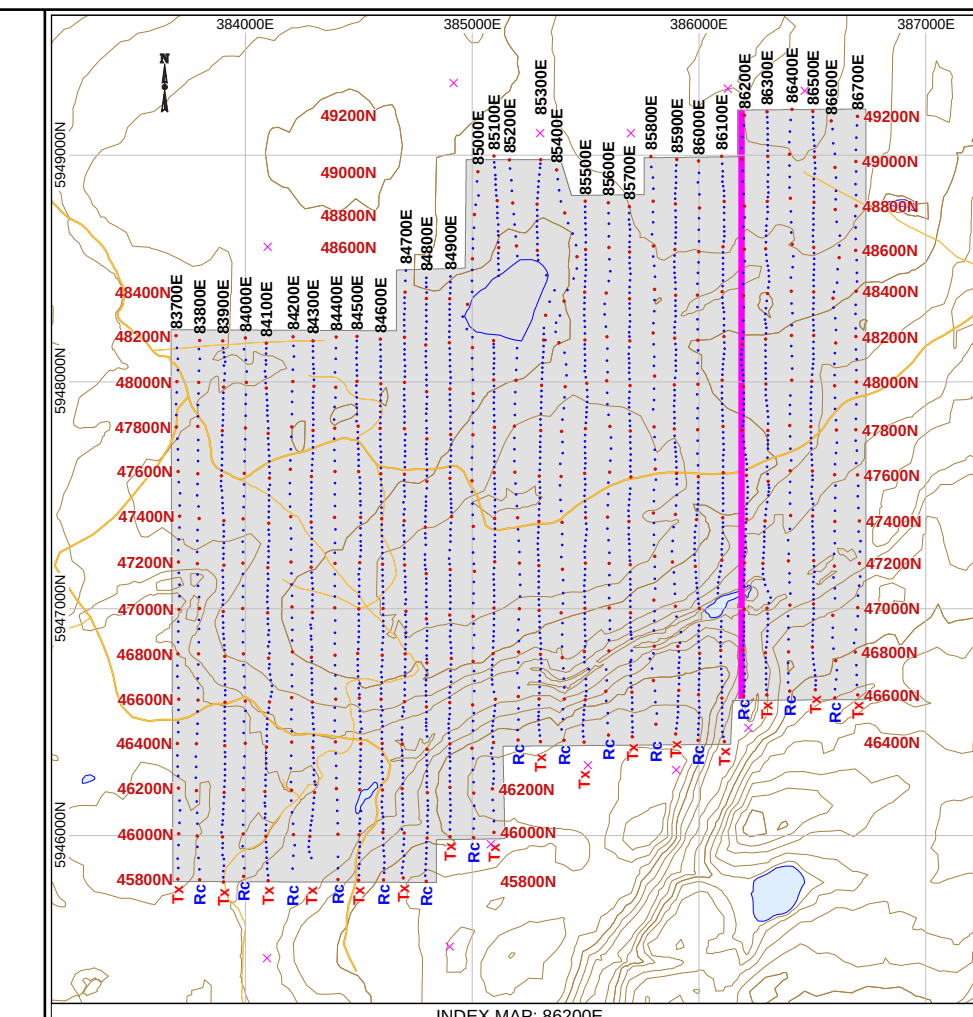
Cross Section Map
Section: 86100E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

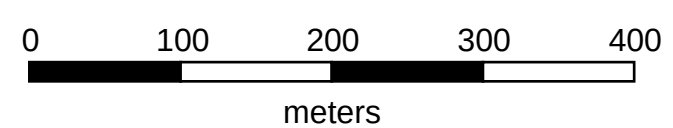


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

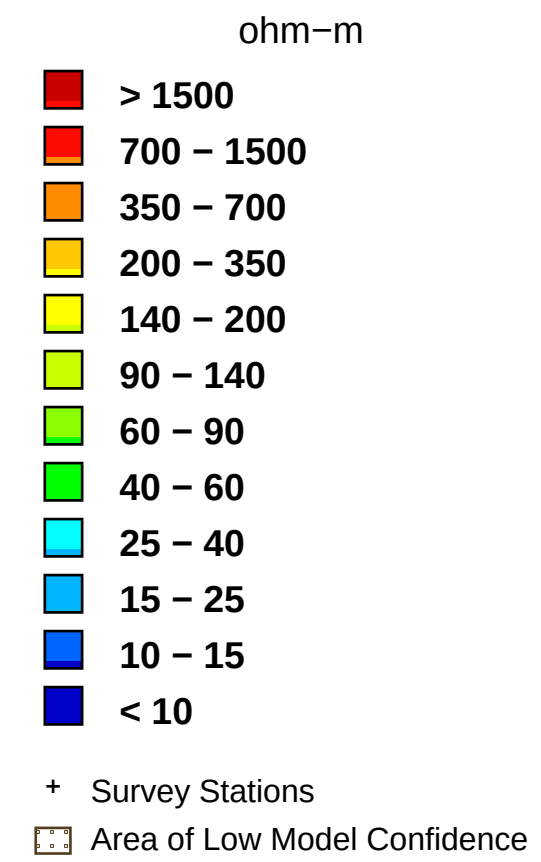
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



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**3D Inversion Models
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Resistivity & Chargeability**

Cross Section Map
Section: 86200E



Elevation (m)

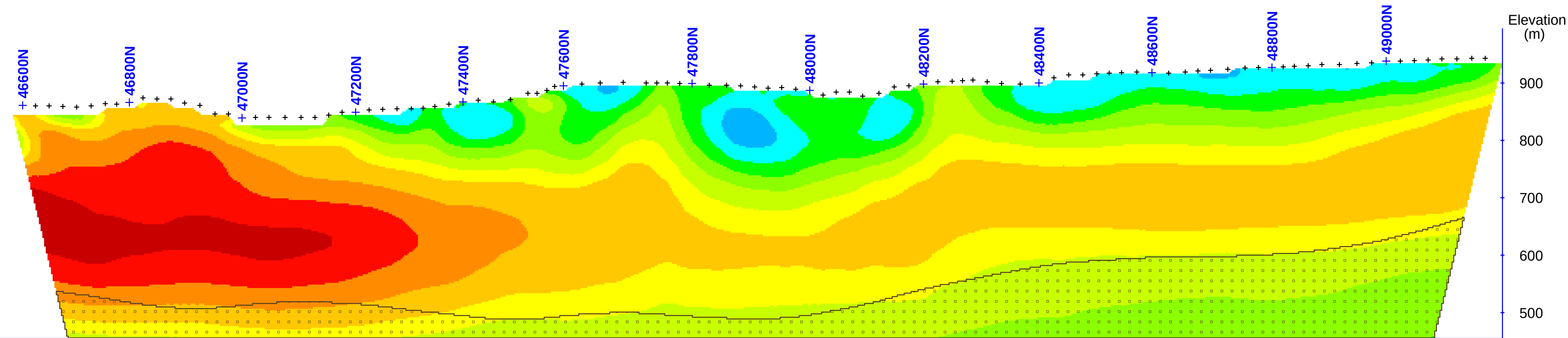
900

800

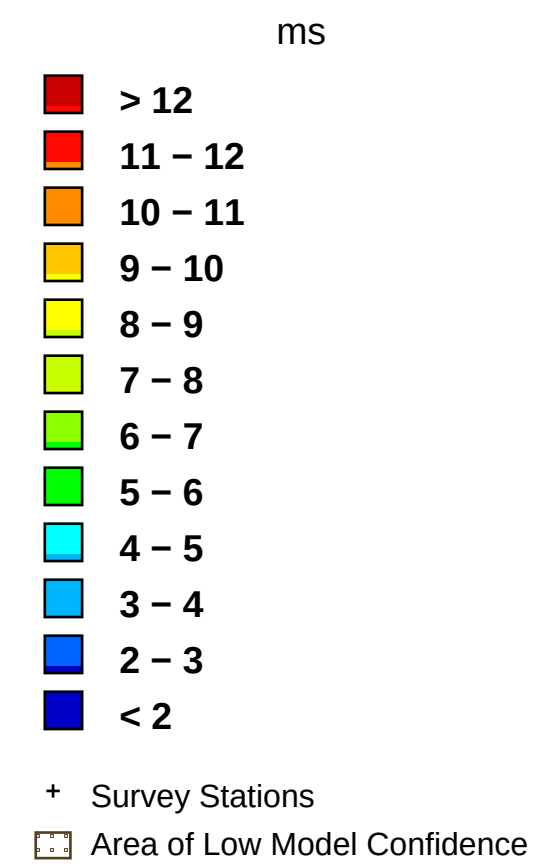
700

600

500



Interpreted Resistivity (ohm-m)



Elevation (m)

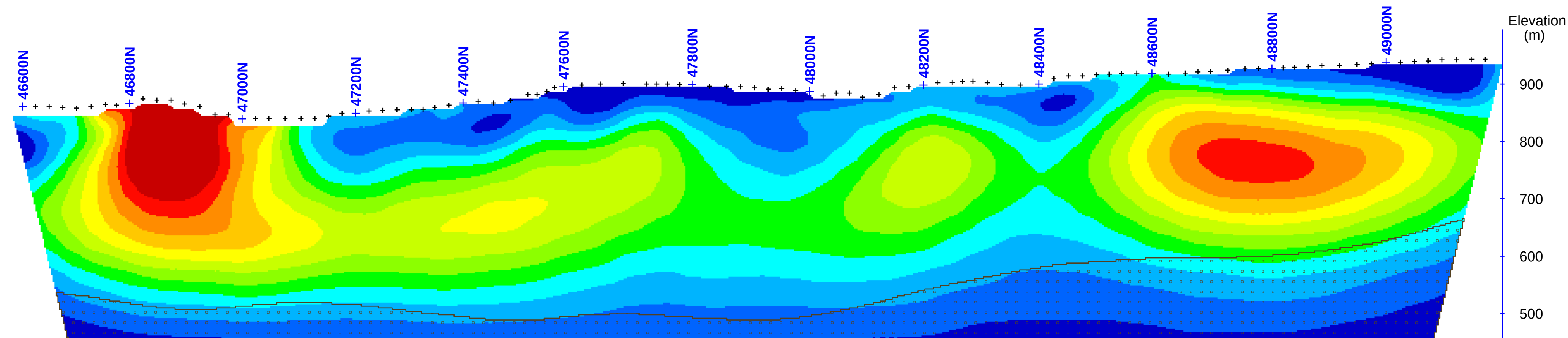
900

800

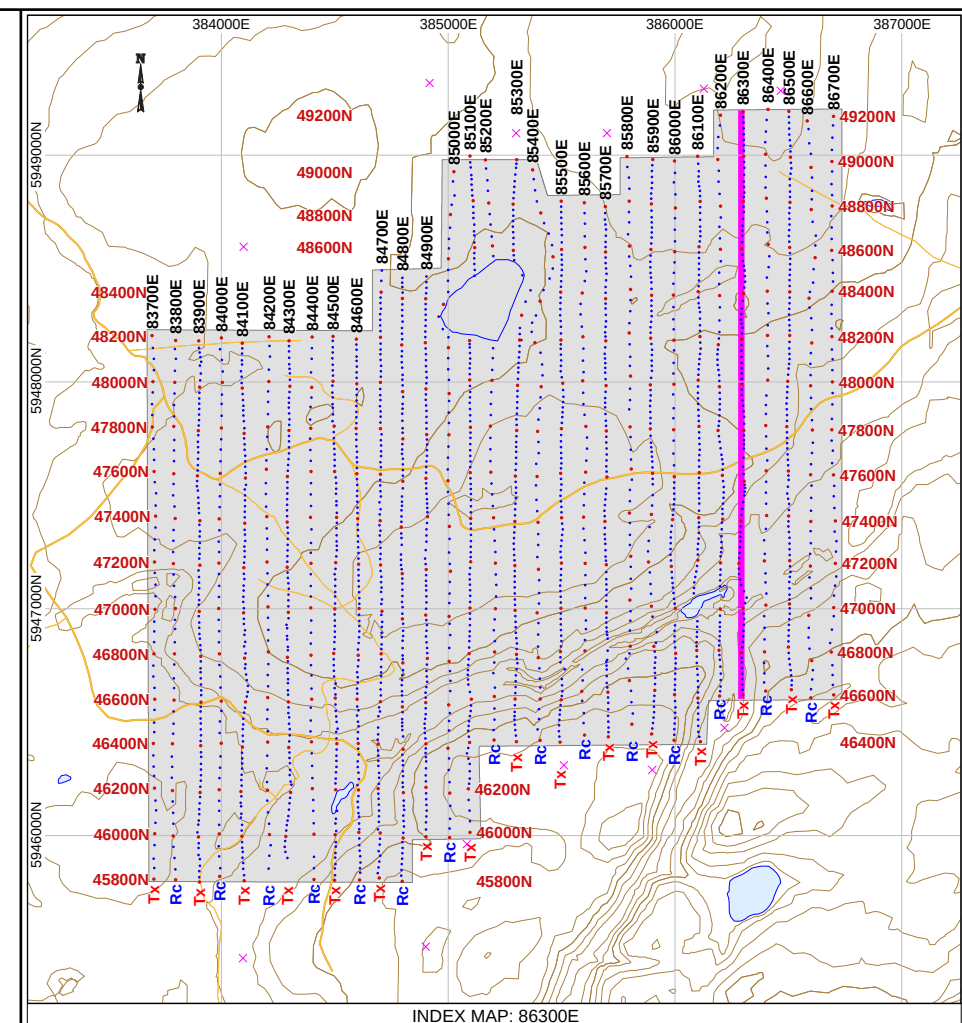
700

600

500



Interpreted Chargeability (ms)

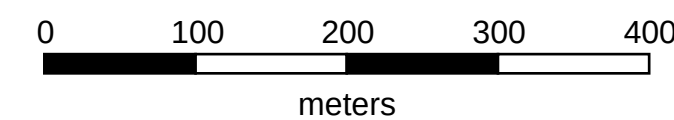


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

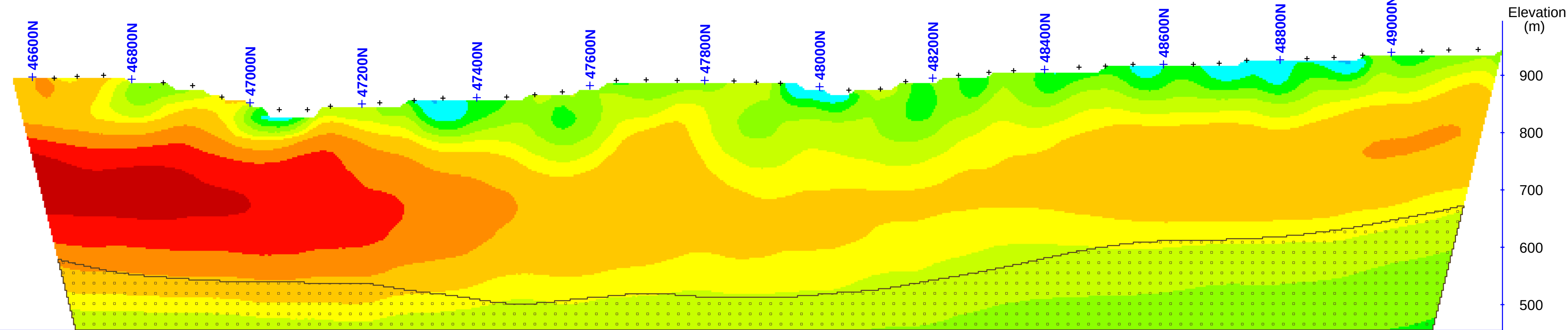
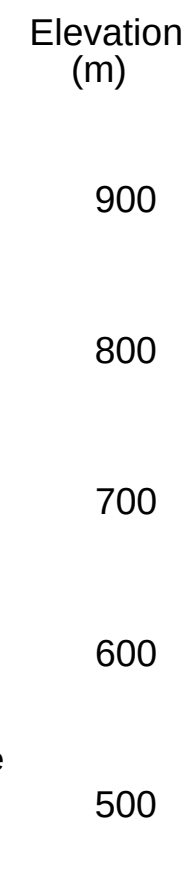
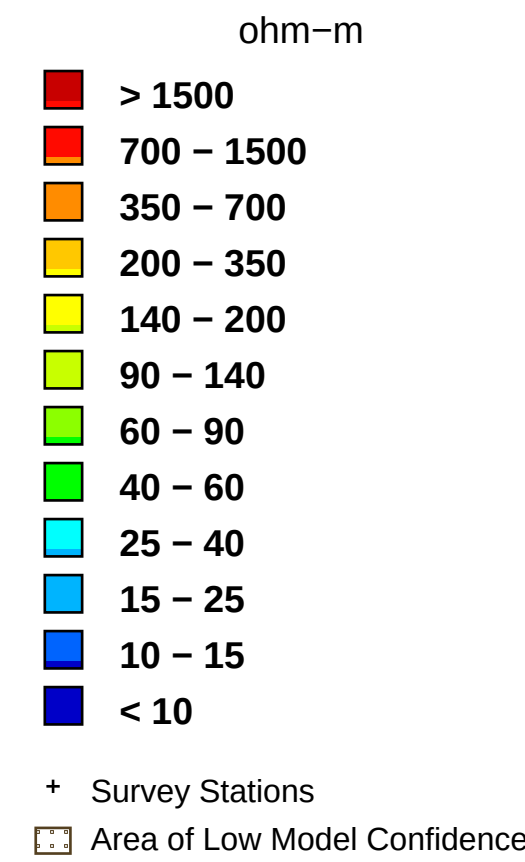
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



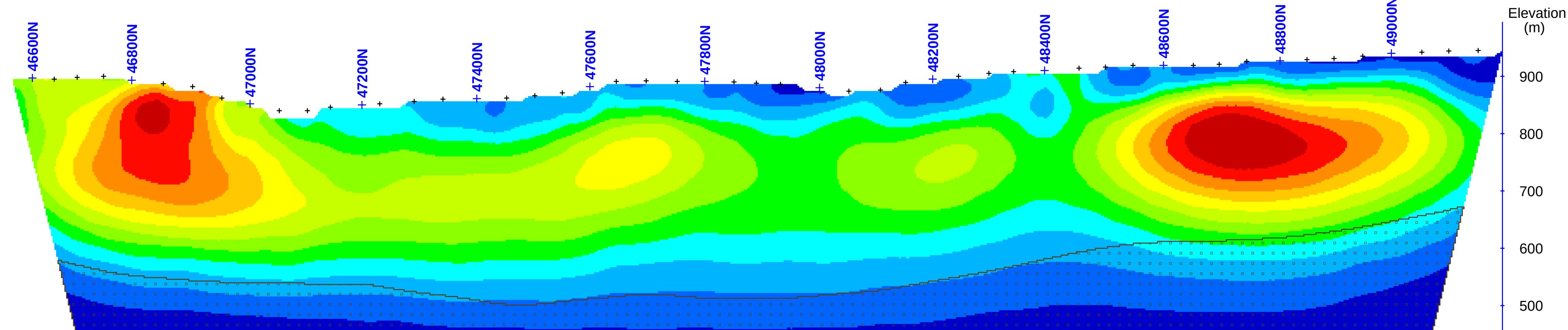
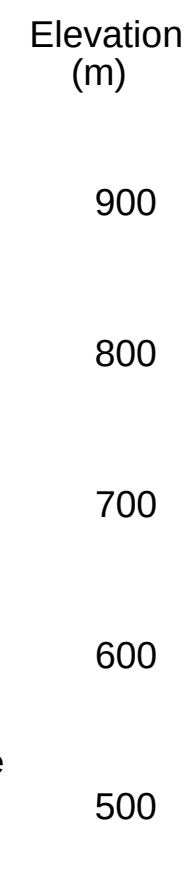
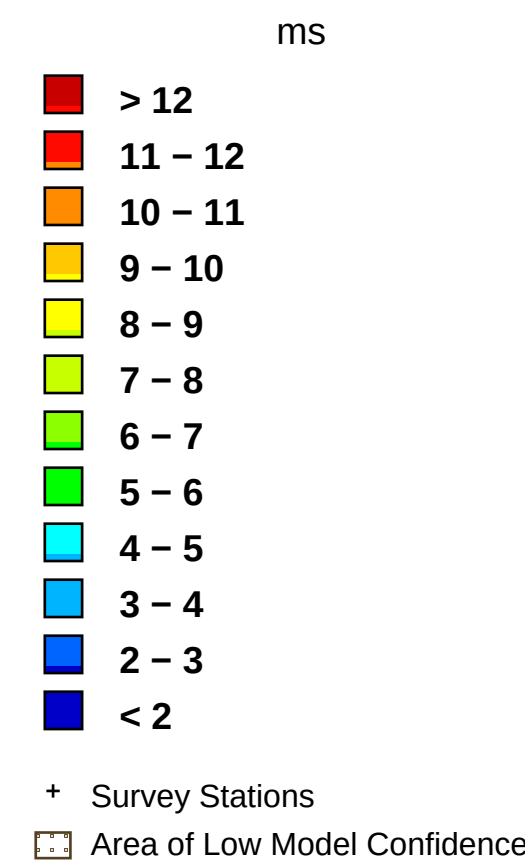
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3D Inversion Models
of
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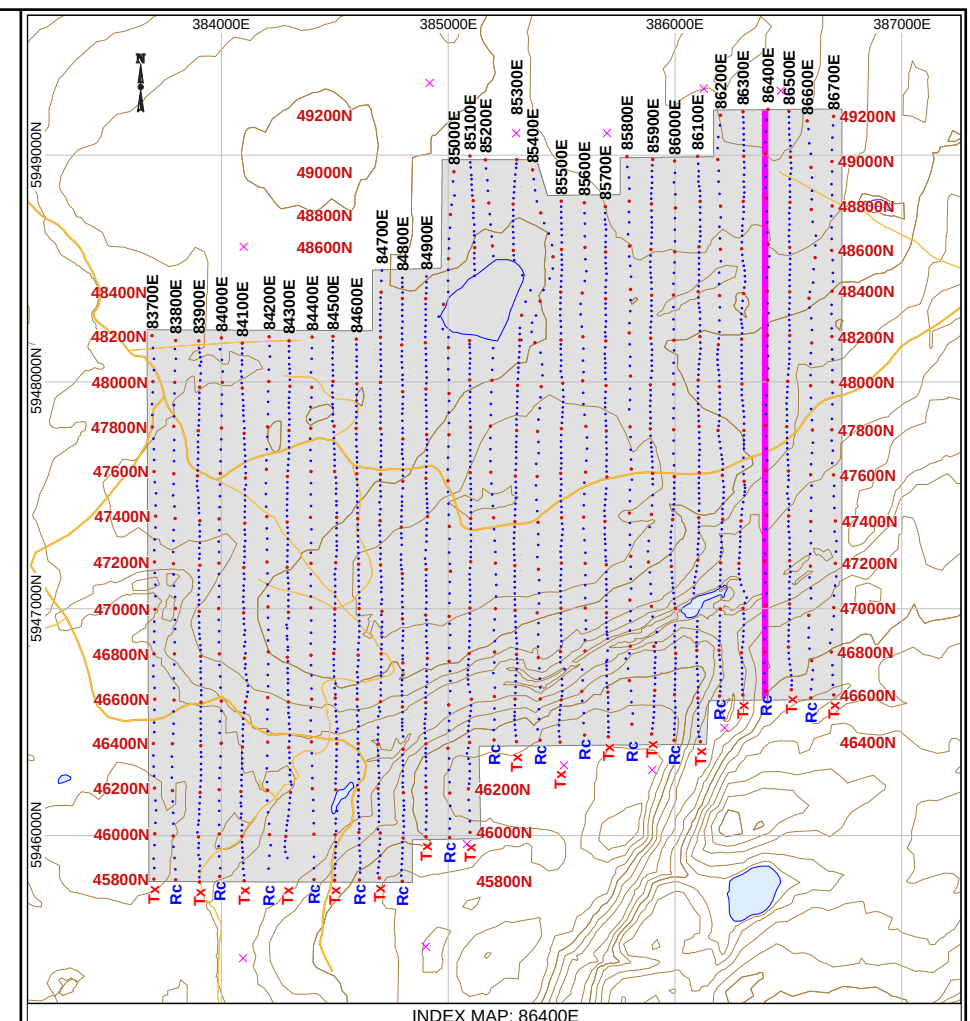
Cross Section Map
Section: 86300E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

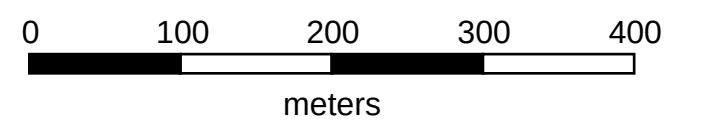


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

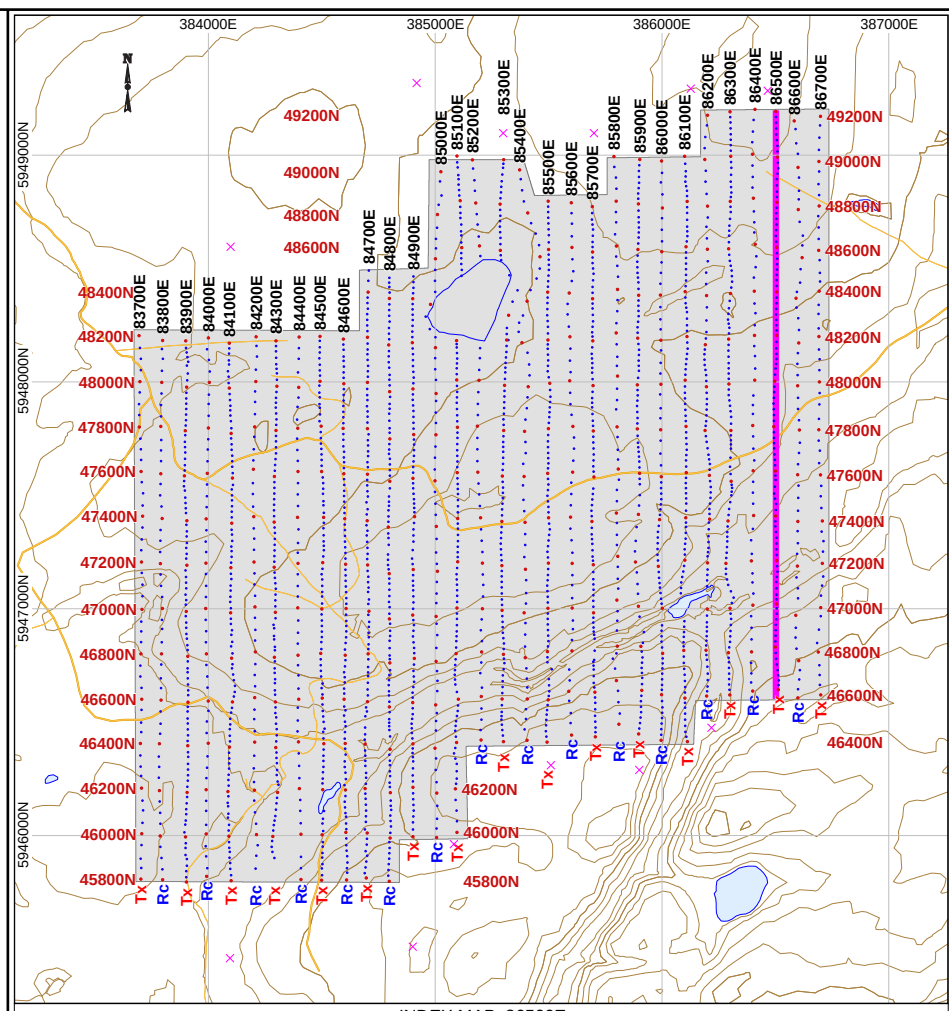
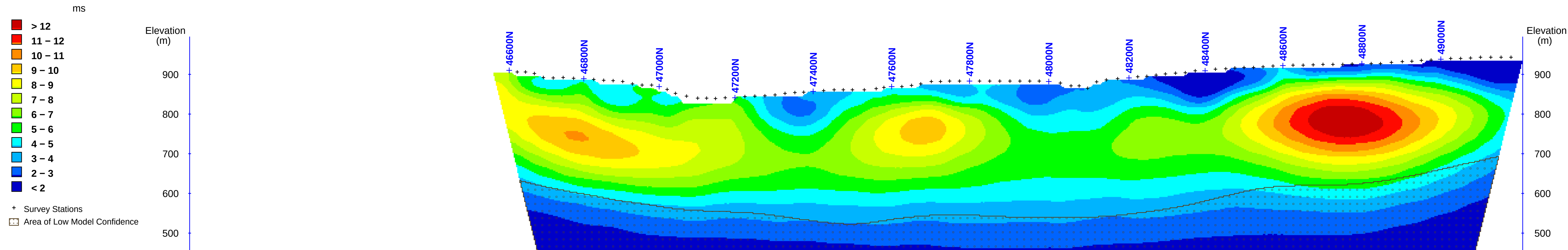
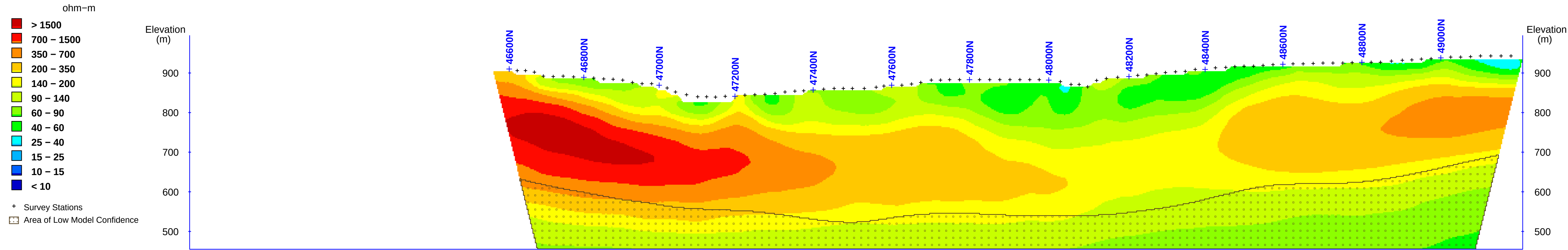
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

Cross Section Map
Section: 86400E

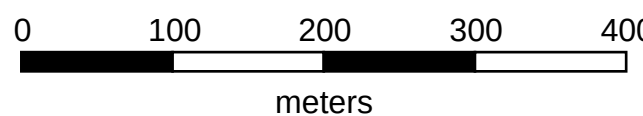


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

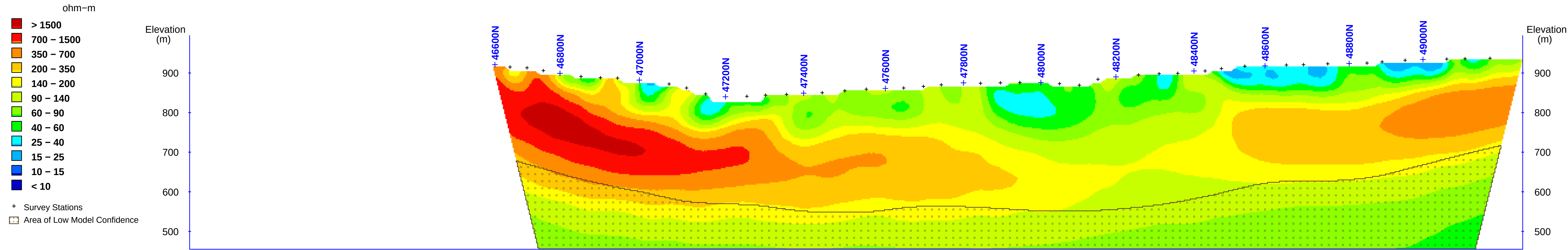
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



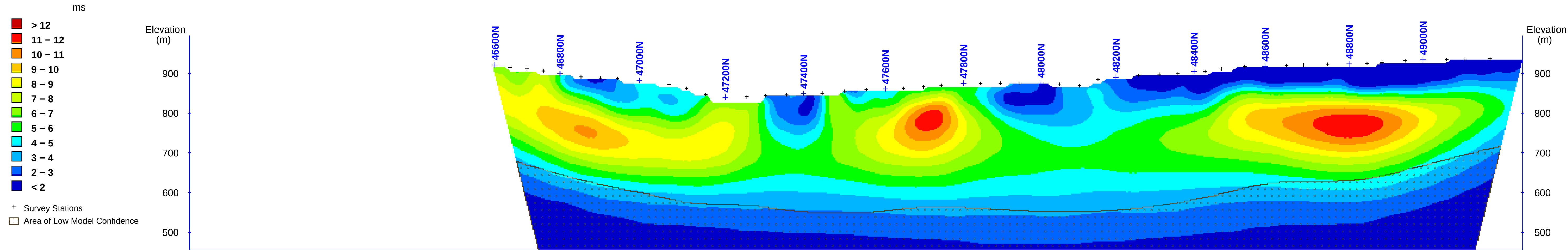
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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

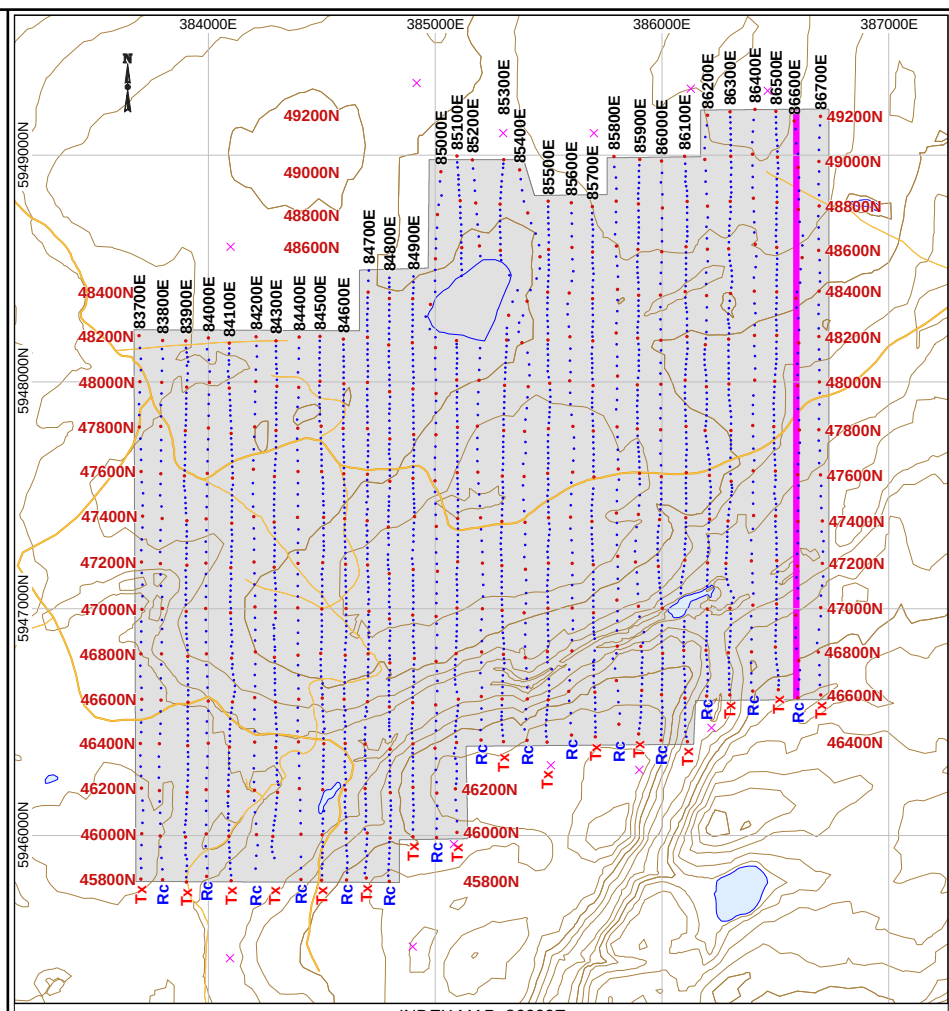
Cross Section Map
Section: 86500E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

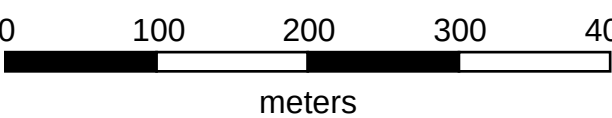


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

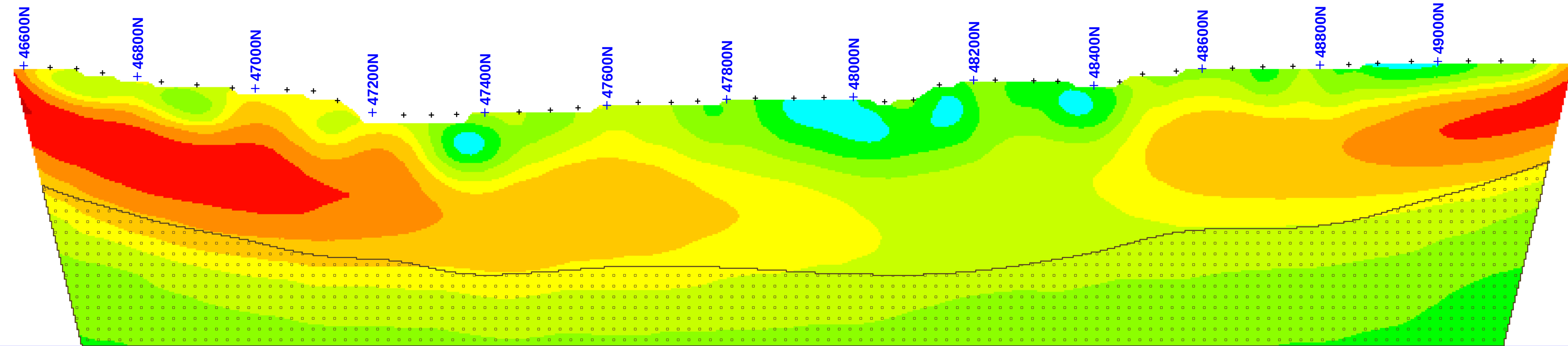
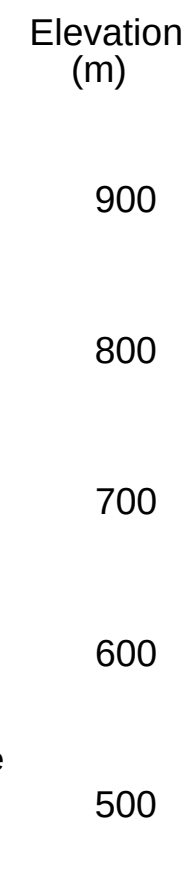
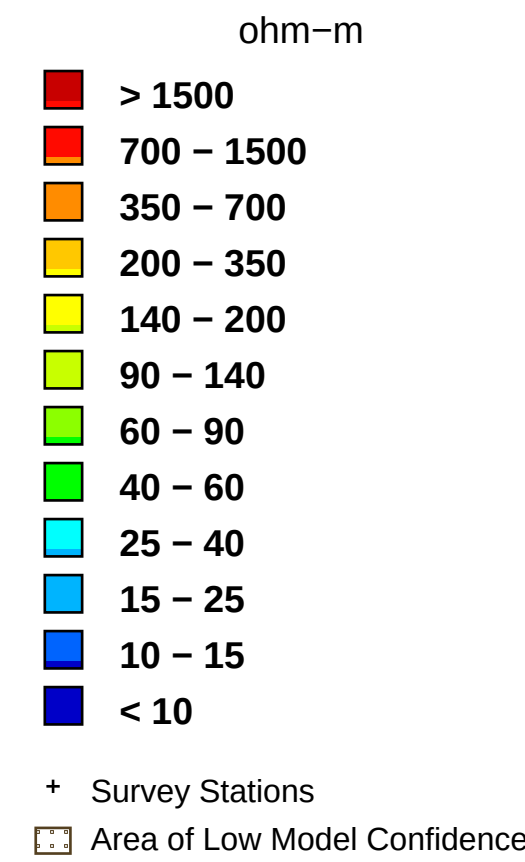
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



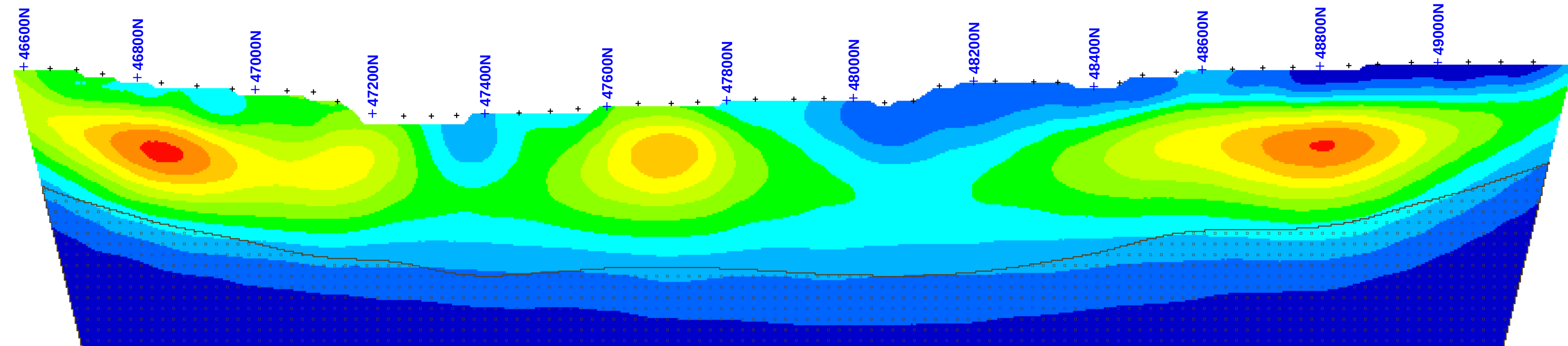
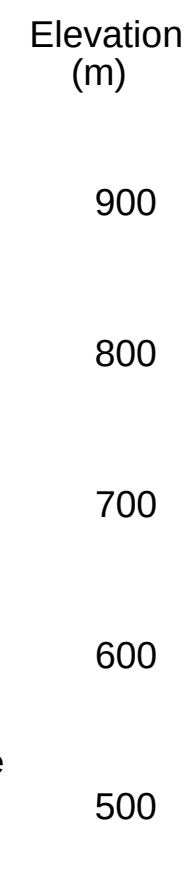
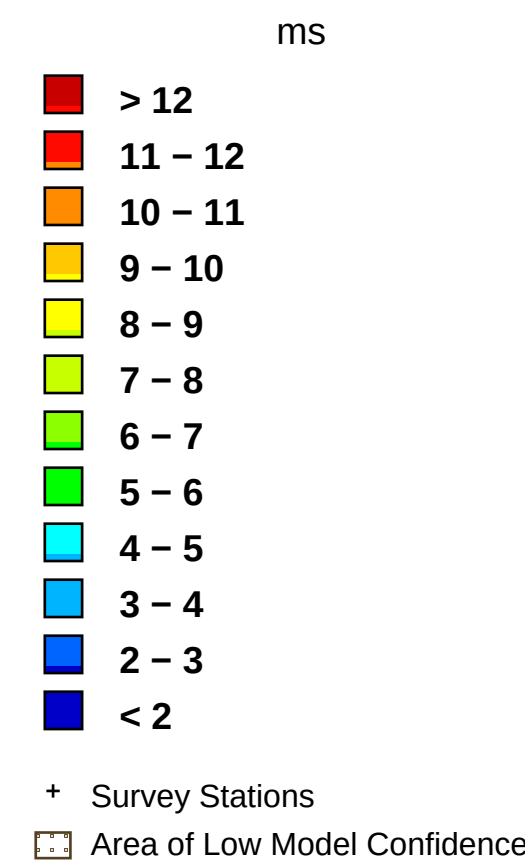
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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

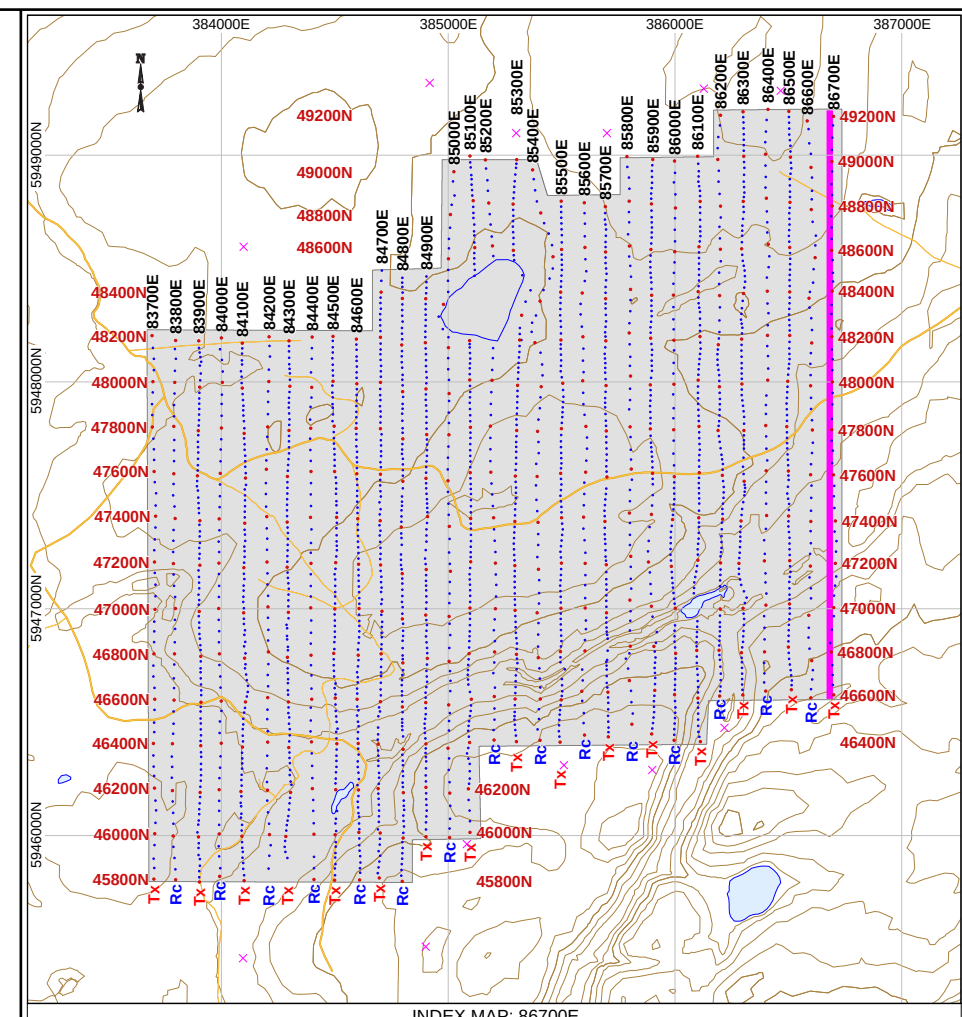
Cross Section Map
Section: 86600E



Interpreted Resistivity (ohm-m)



Interpreted Chargeability (ms)

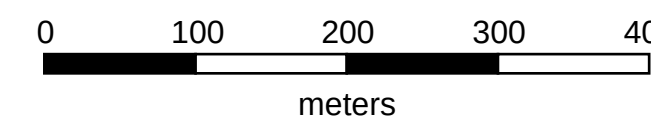


Project Information:
Survey by: SJ Geophysics Ltd.
3D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II
Array Type: 3D

Mapping Information:
Datum: NAD83
Projection: UTM Zone 10
Mapping Date: 22-Jun-2012

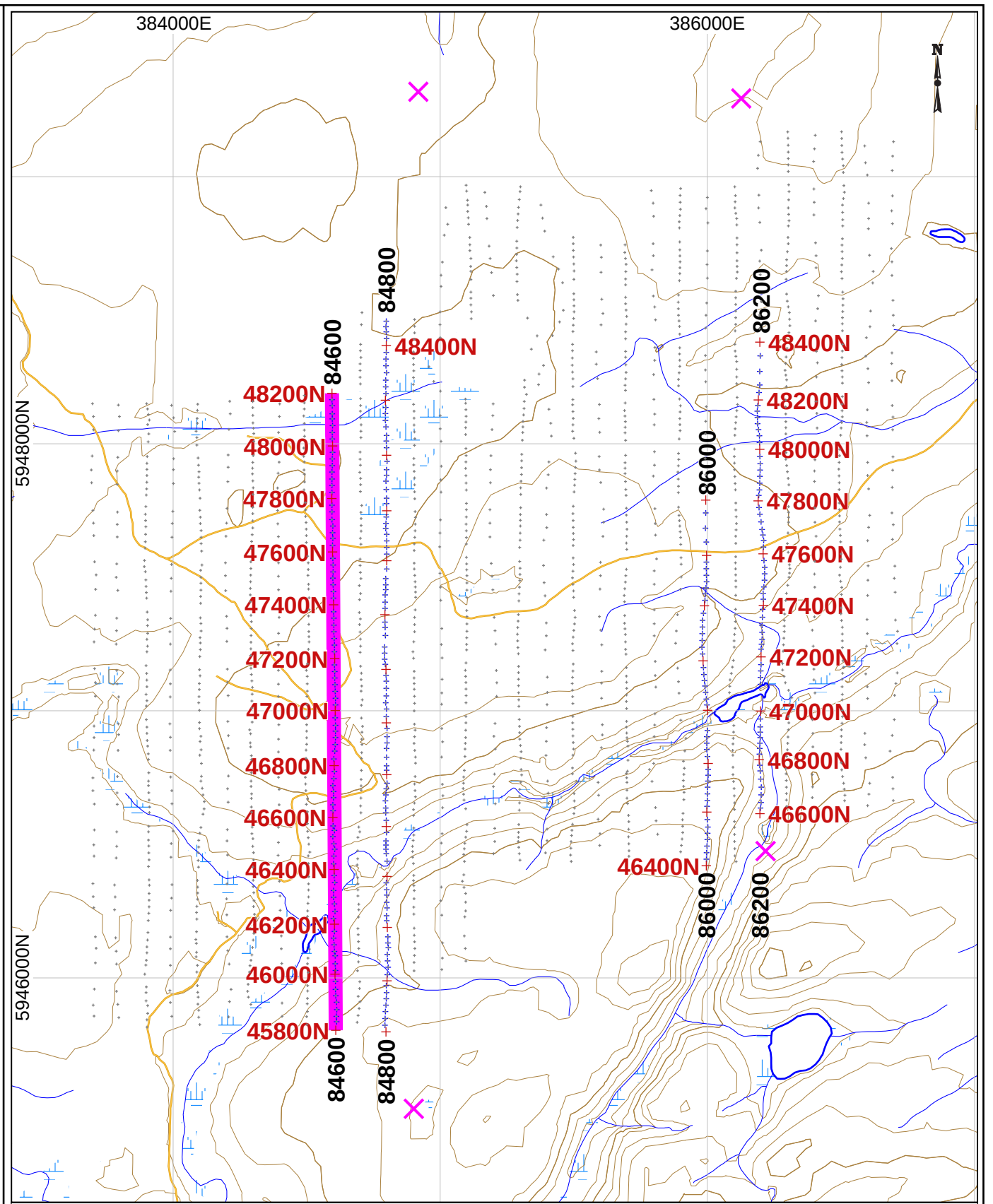
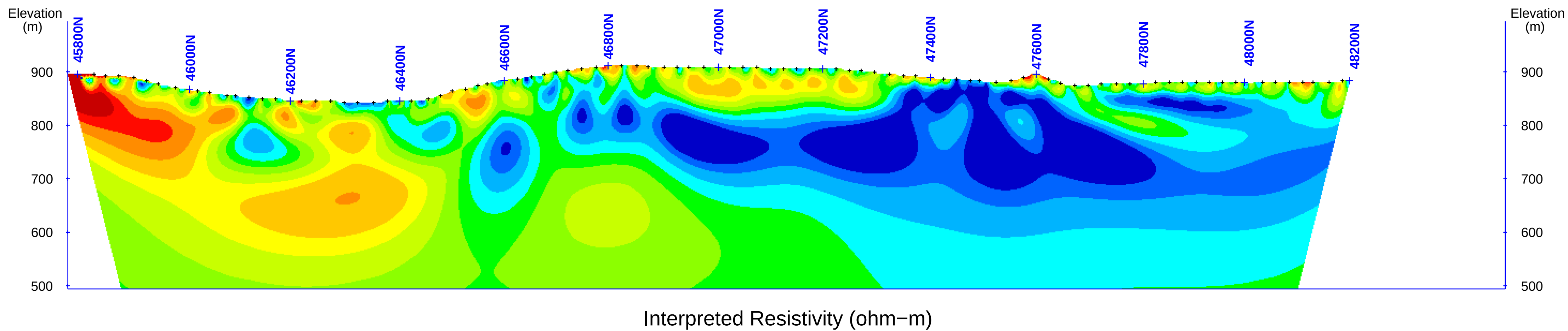
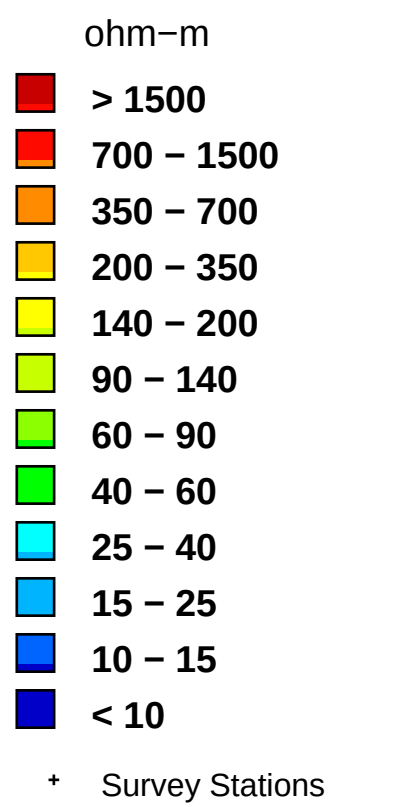
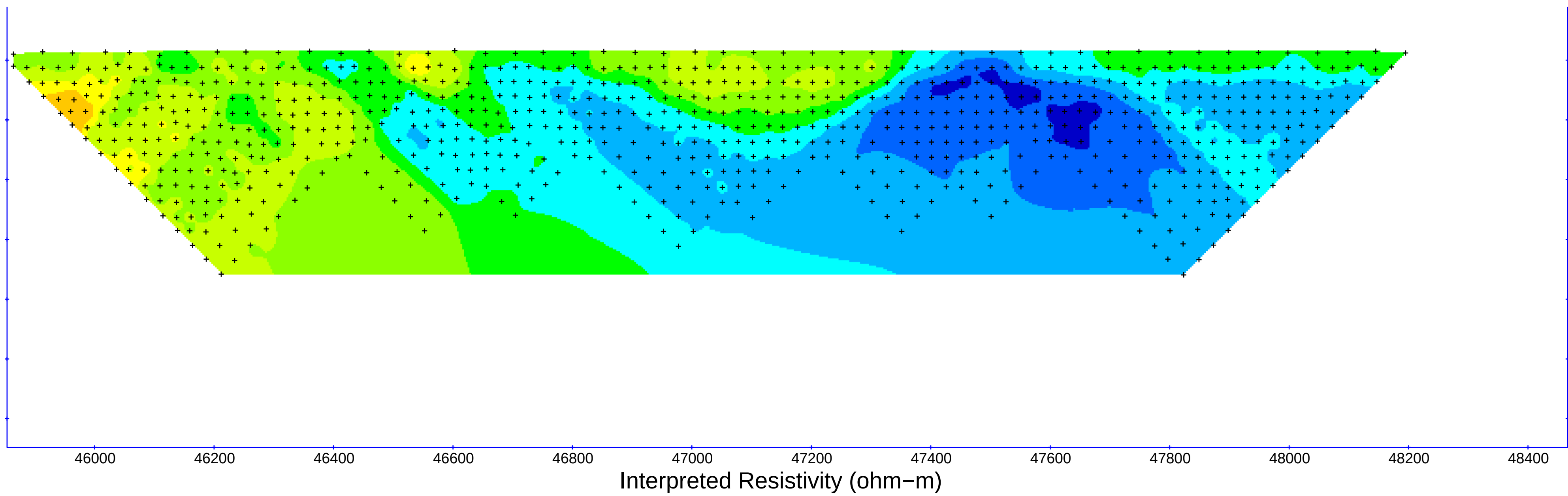
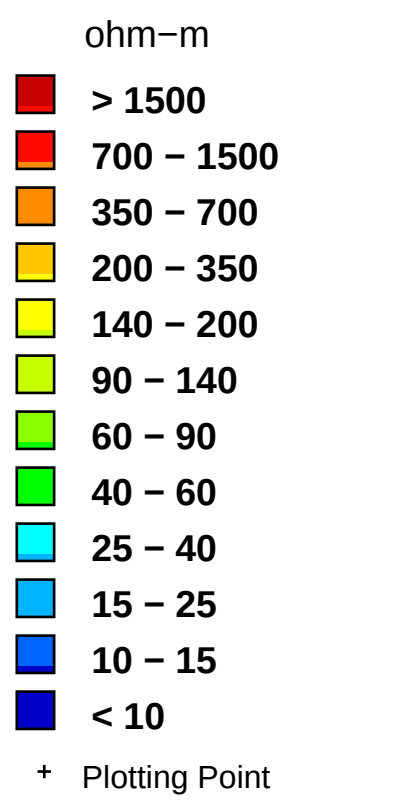
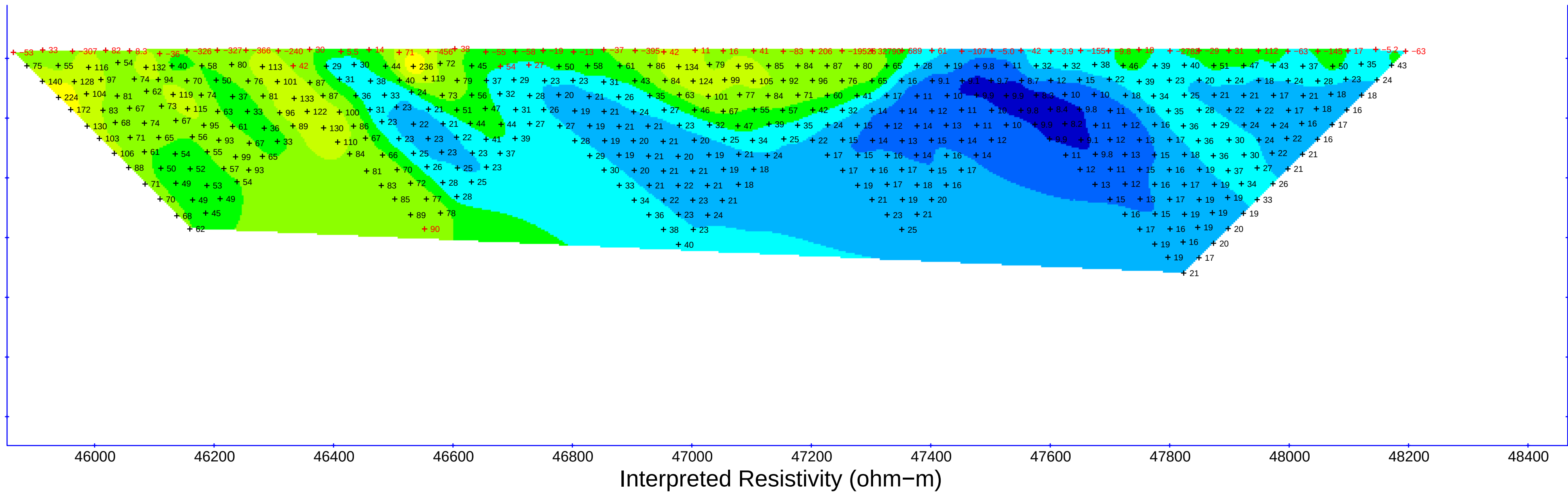
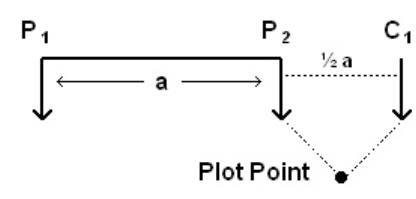
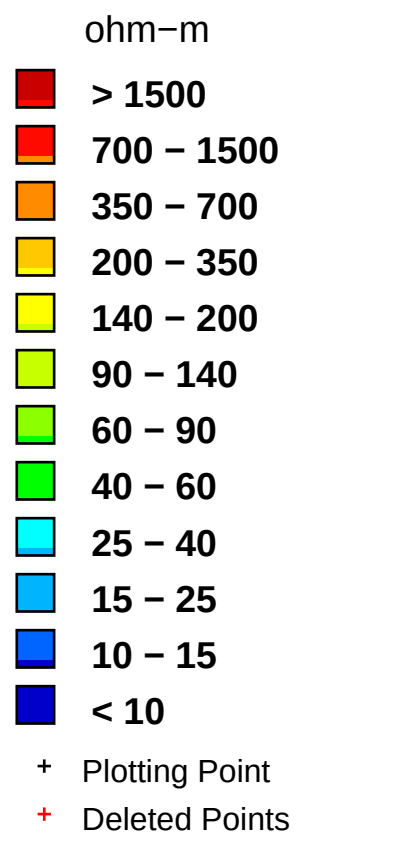
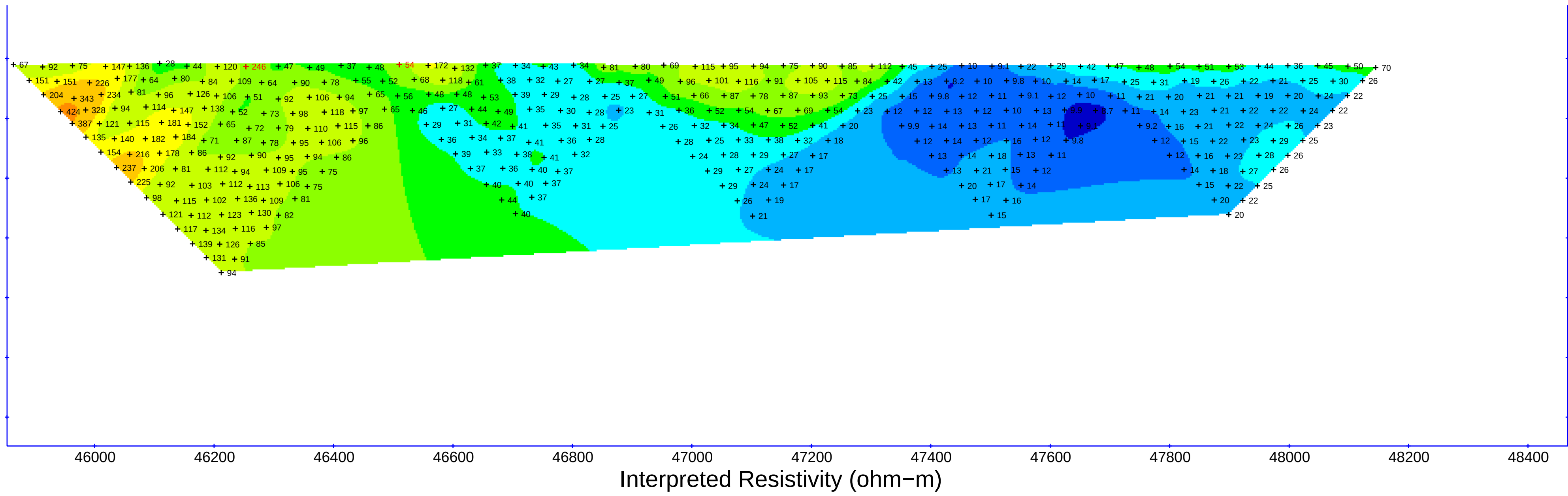
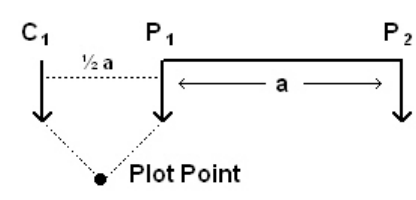
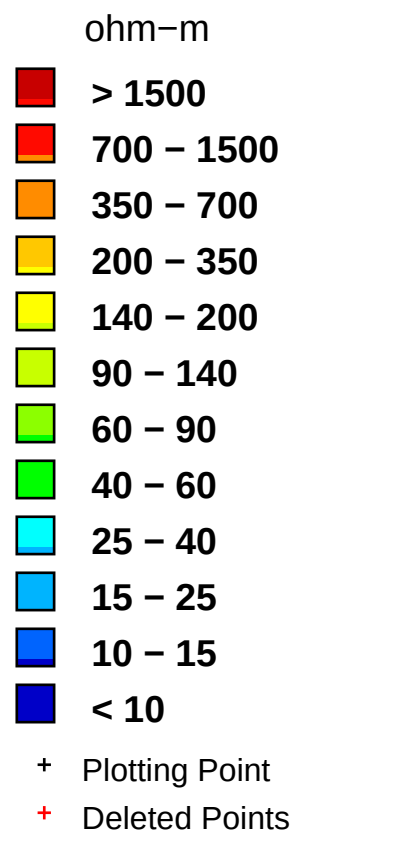
Colour Classifications:
Resistivity: Modified Log-Linear
Chargeability: Linear



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3D Inversion Models
of
Interpreted
Resistivity & Chargeability

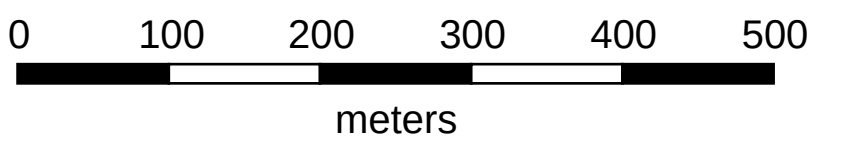
Cross Section Map
Section: 86700E



Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-16, a=50

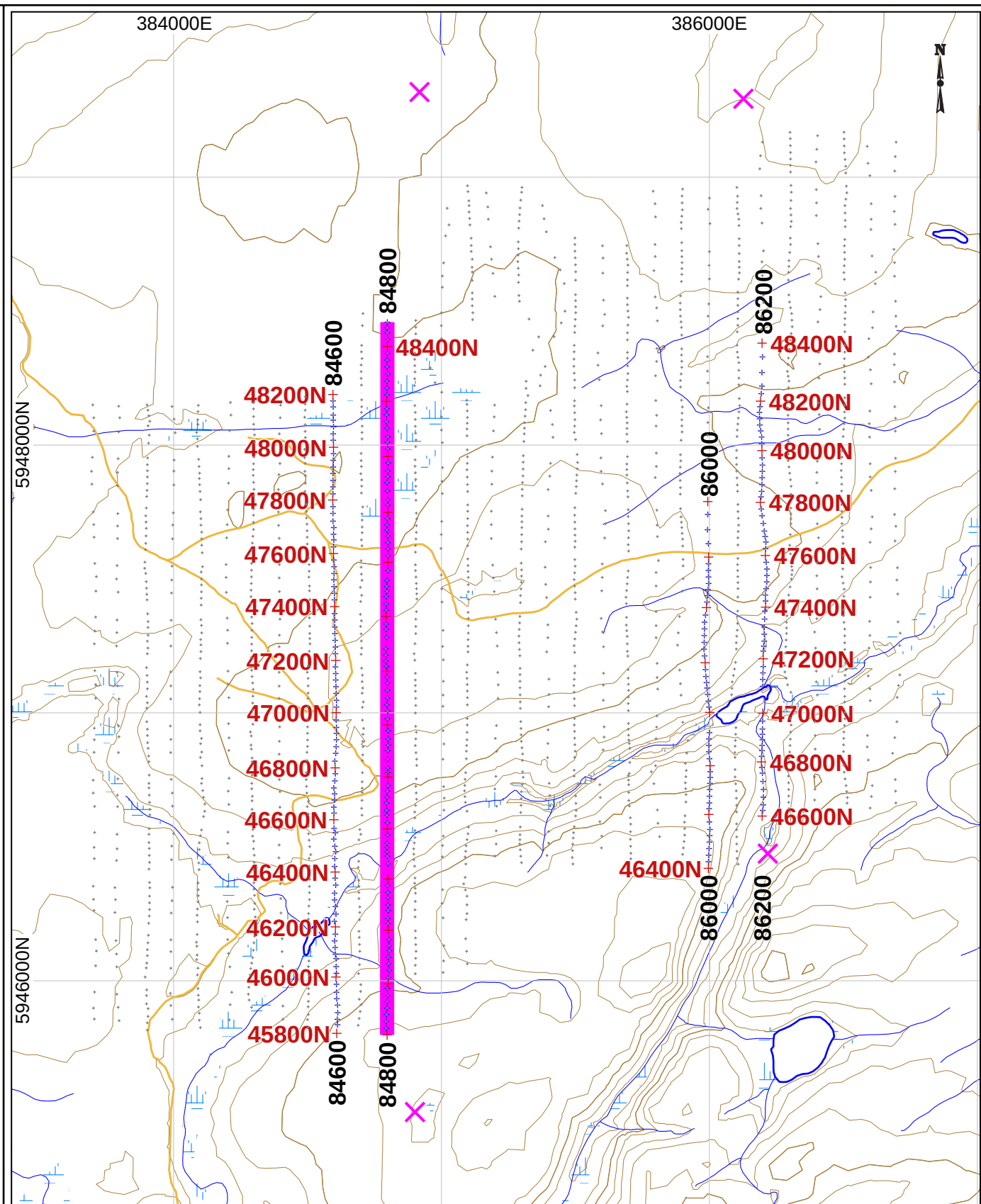
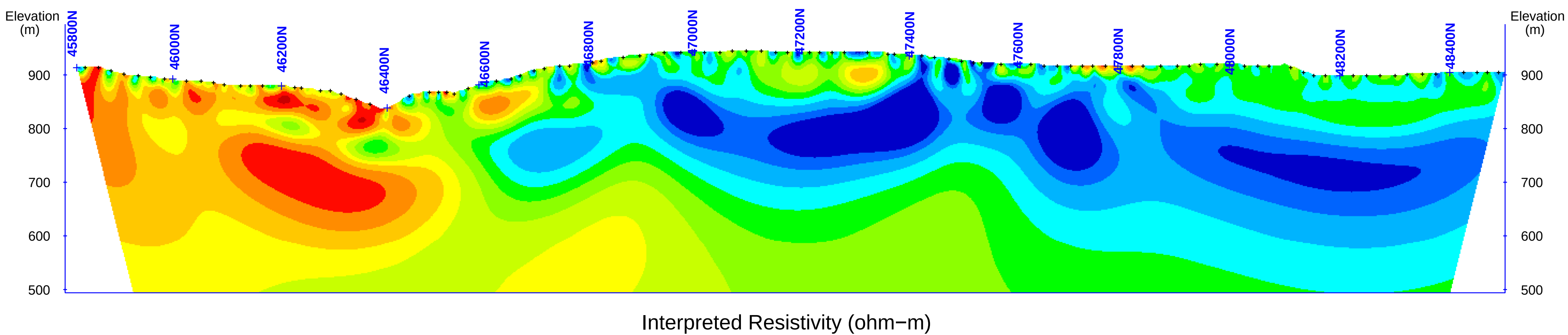
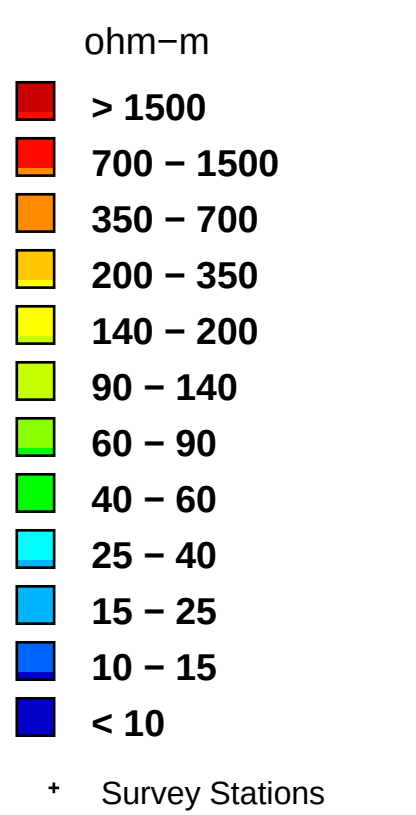
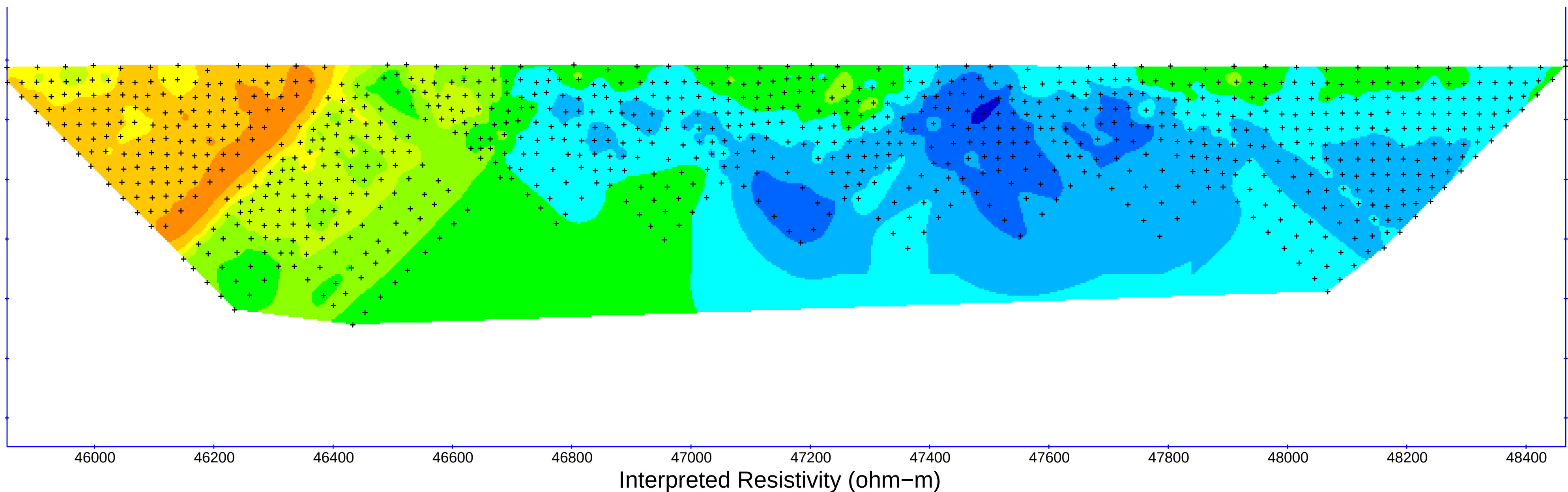
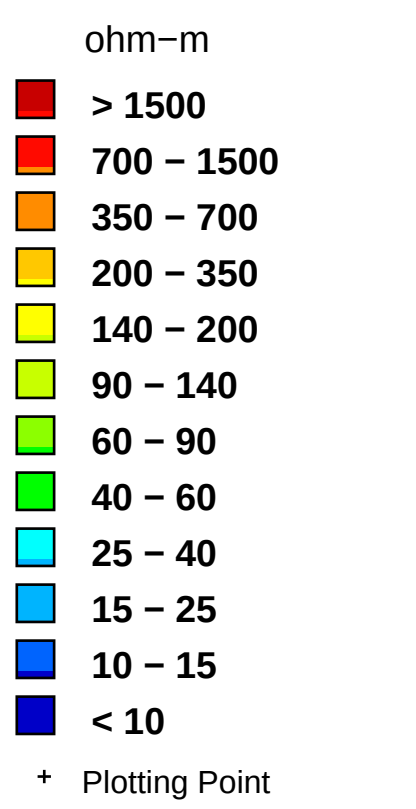
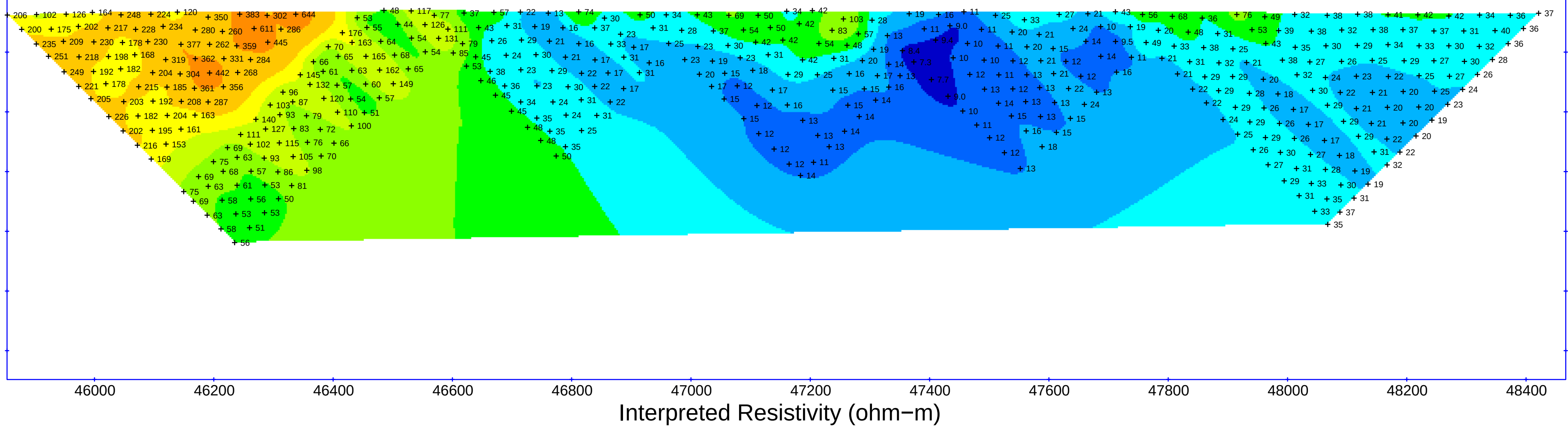
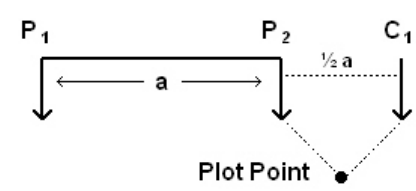
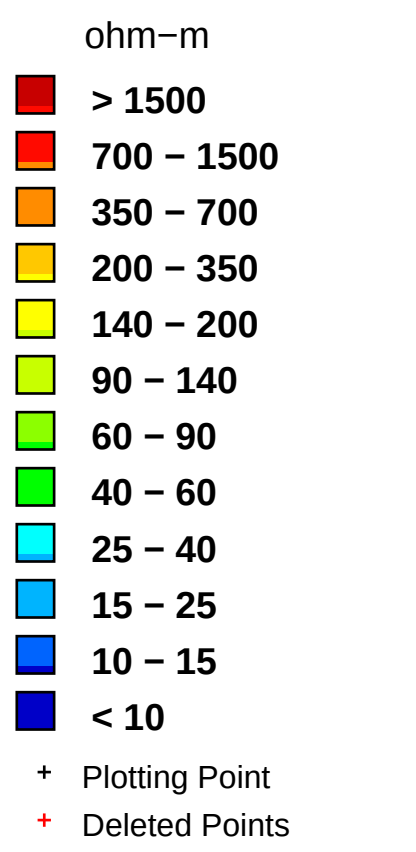
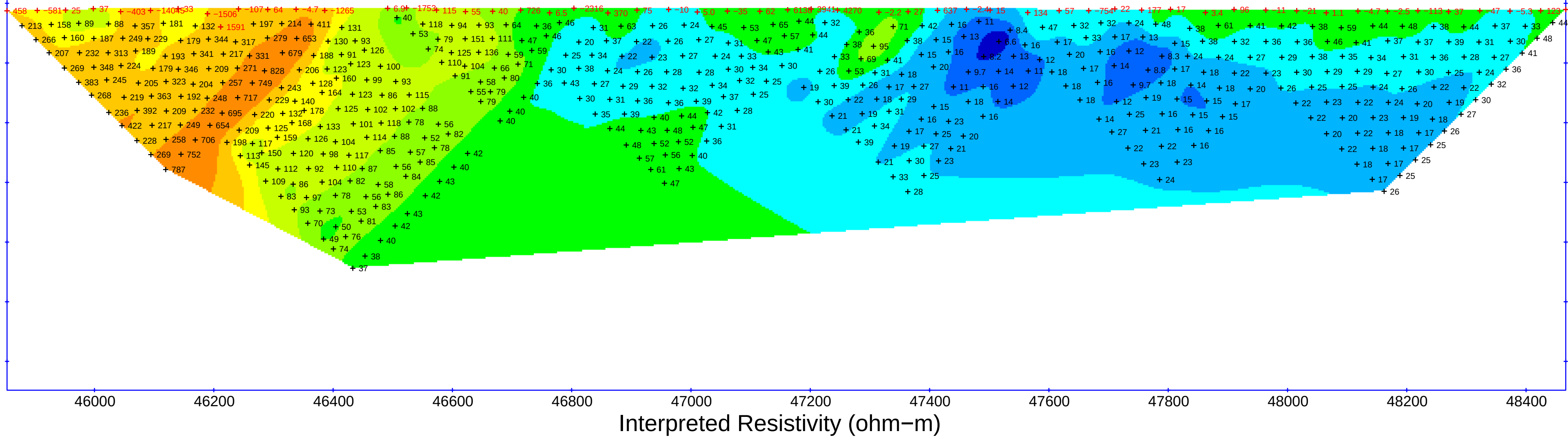
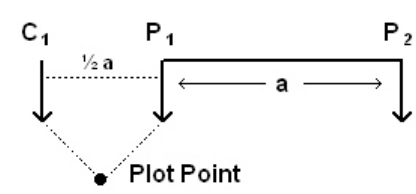
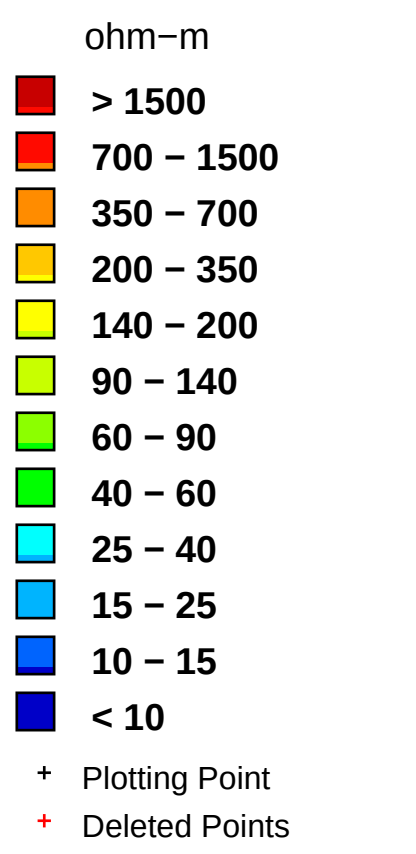
Mapping Information:
Section Plots: Local Coordinate System
Index Map Datum: NAD83
Index Map Projection: UTM Zone 10
Mapping Date: 24-Jul-2012



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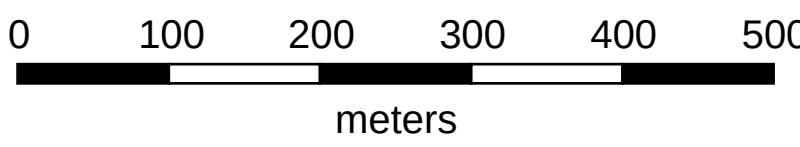


INDEX MAP: 84800E

Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-16 & n=1-22, a=50

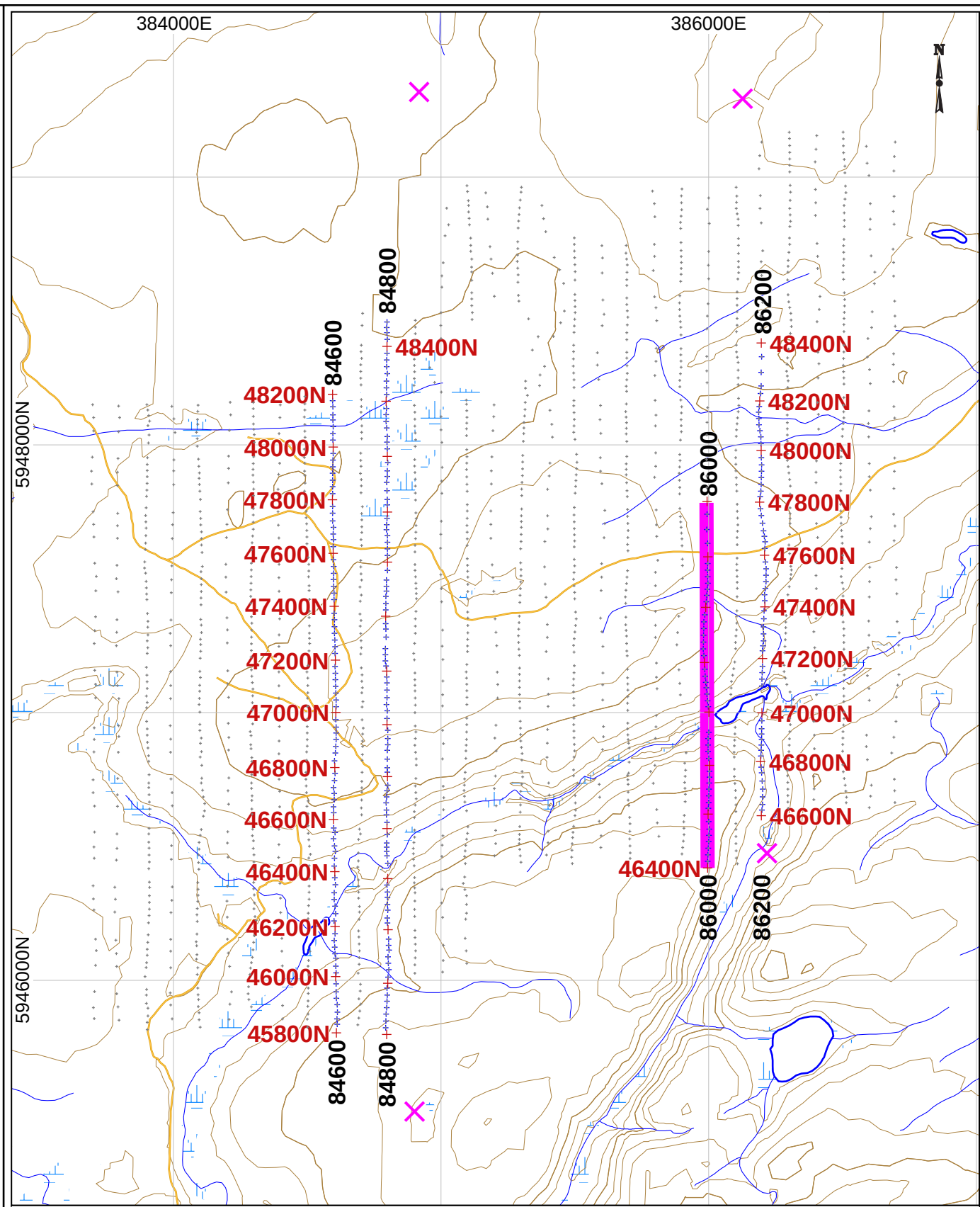
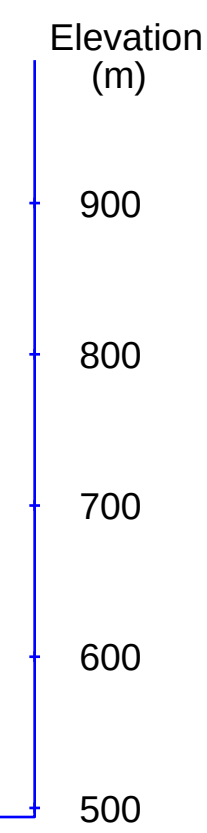
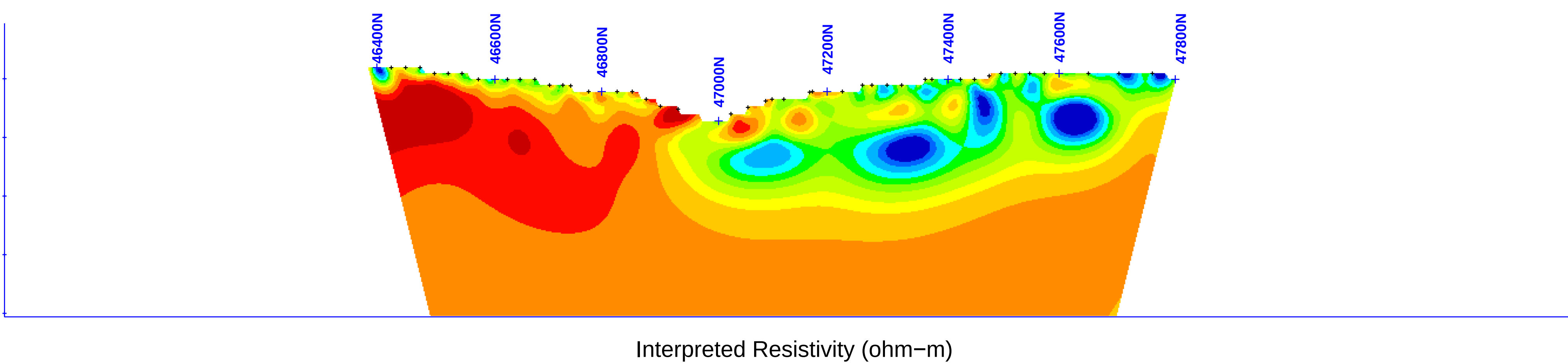
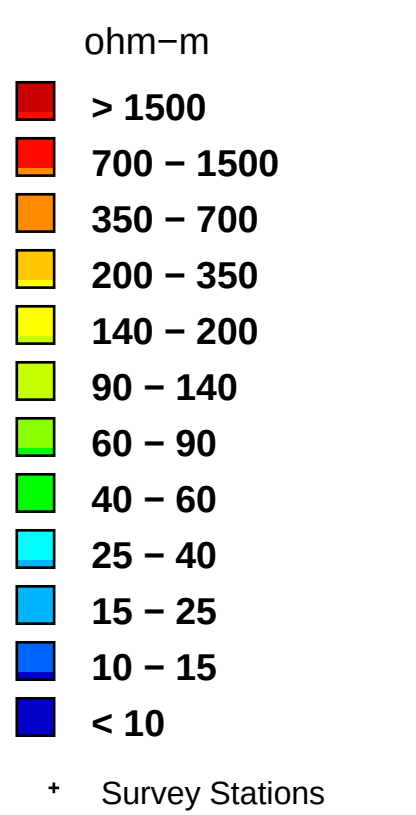
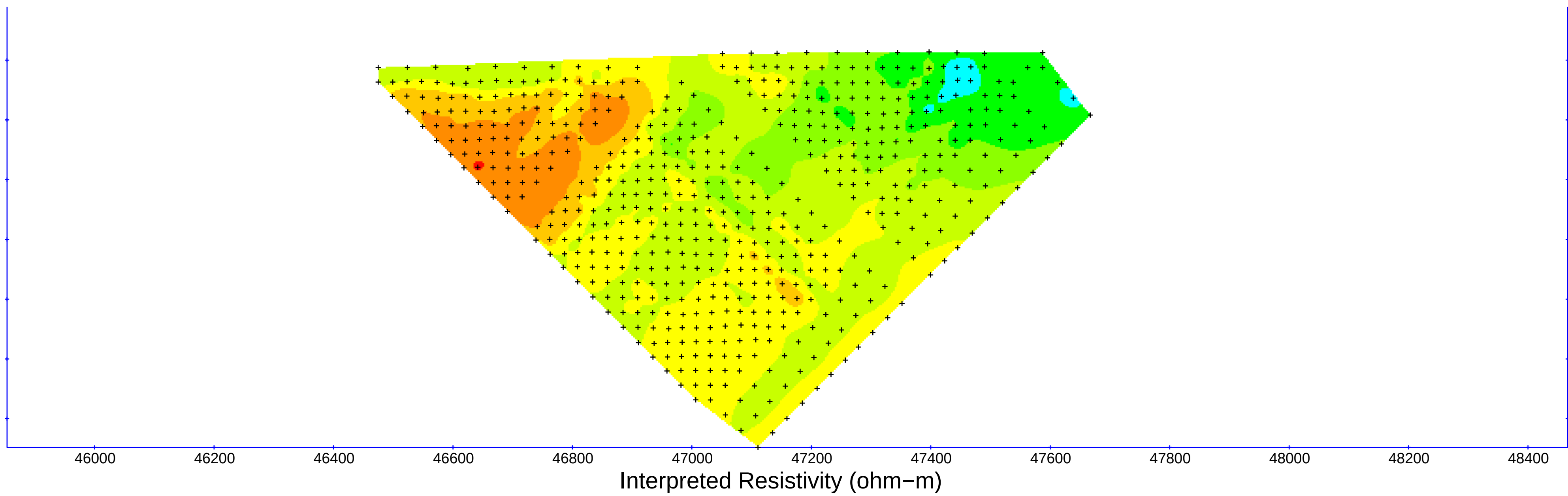
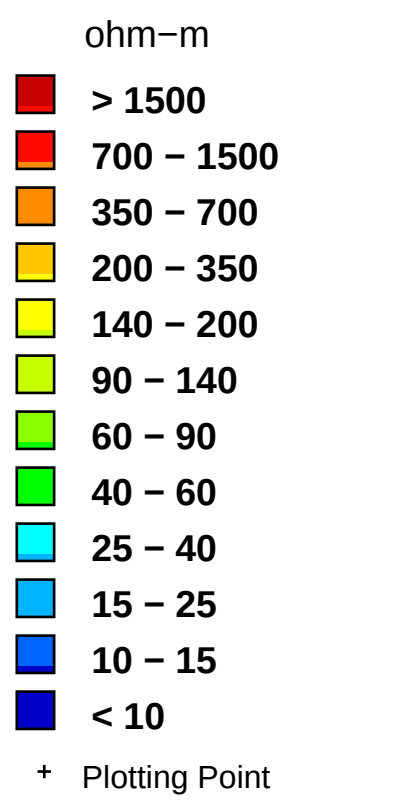
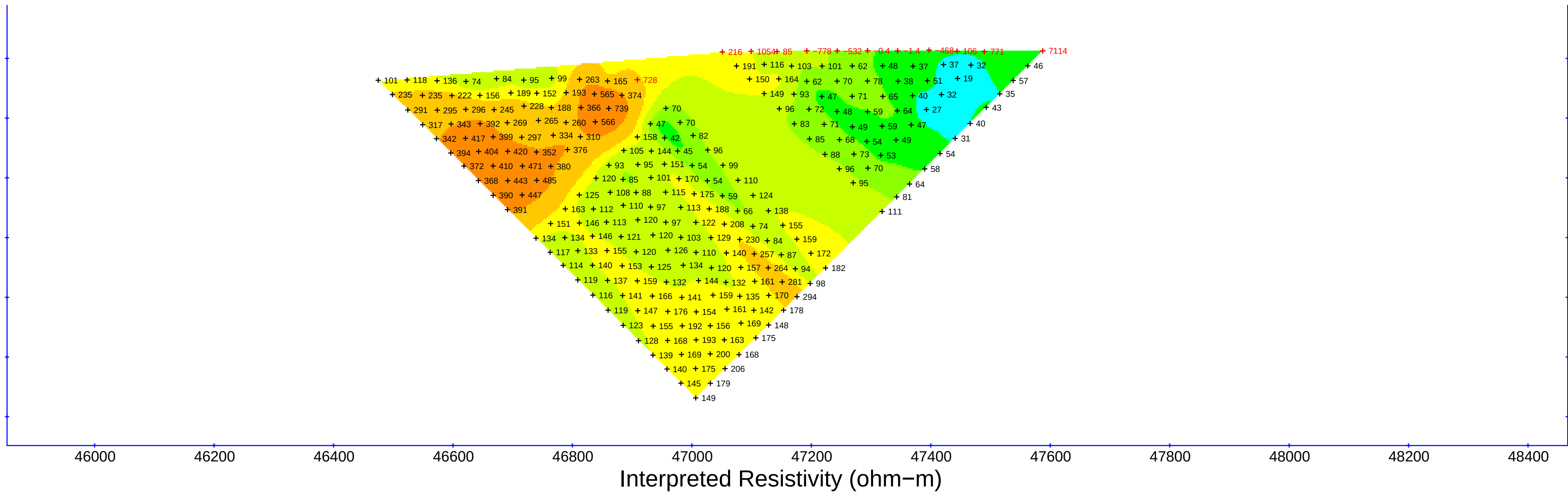
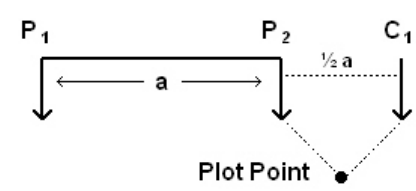
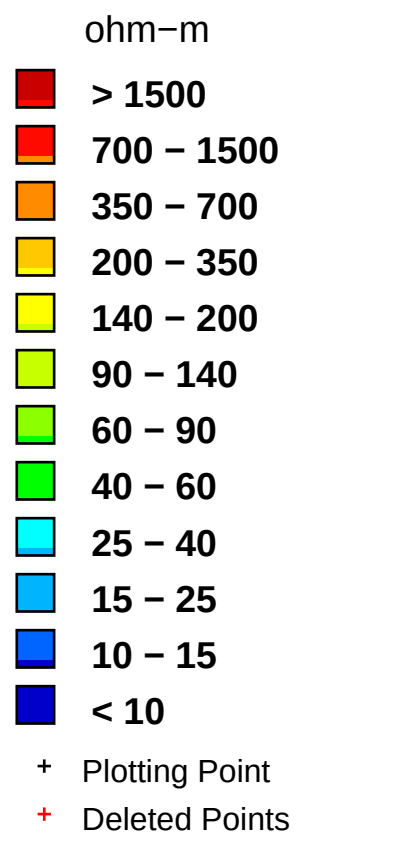
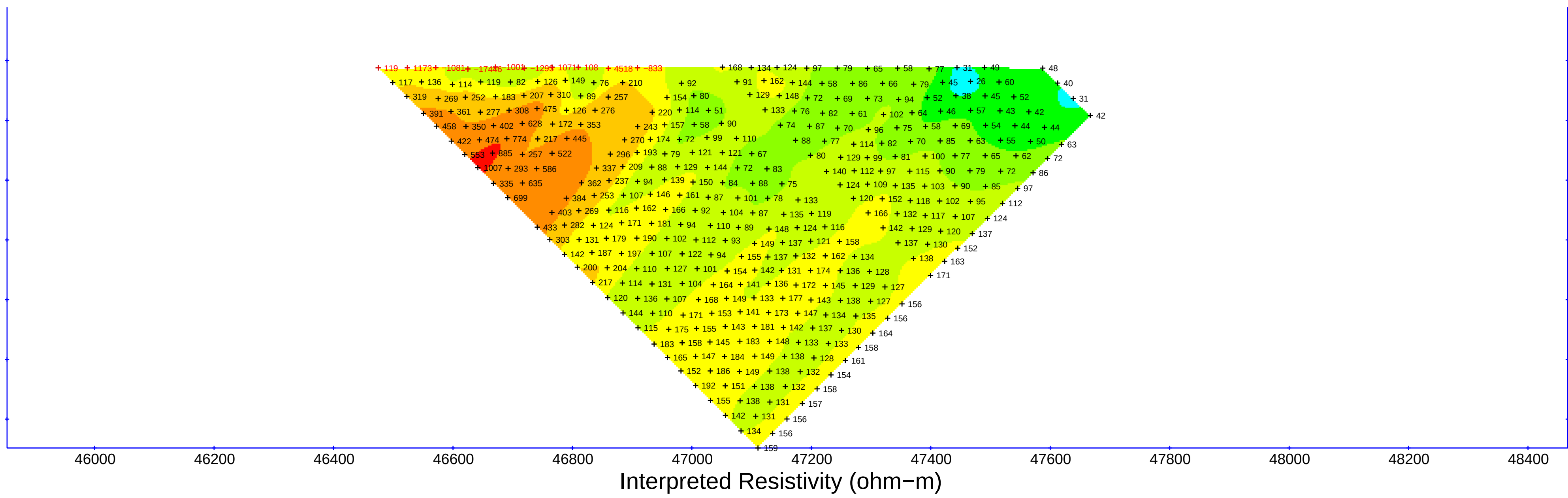
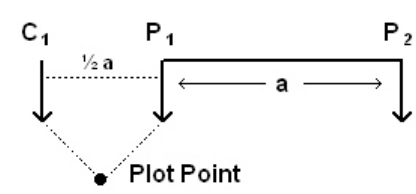
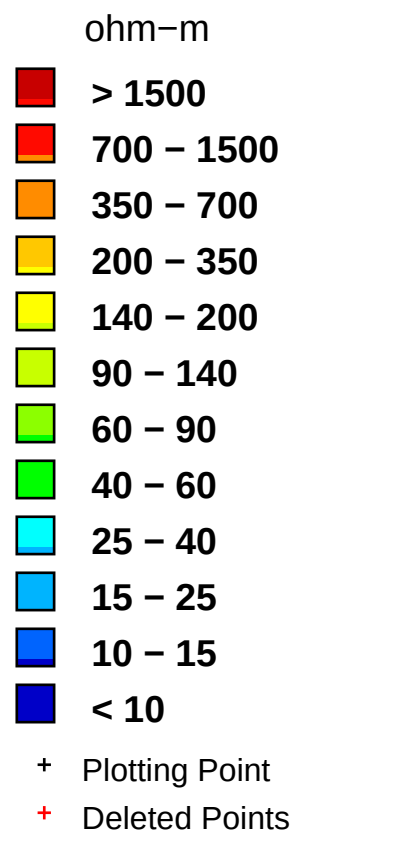
Mapping Information:
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Index Map Datum: NAD83
Index Map Projection: UTM Zone 10
Mapping Date: 24-Jul-2012



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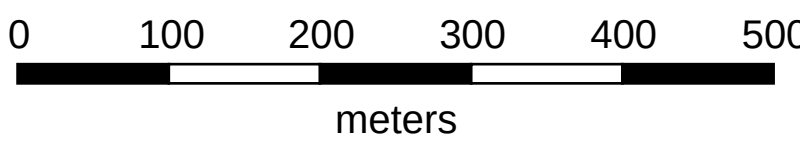


INDEX MAP: 86000E

Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-26, a=50

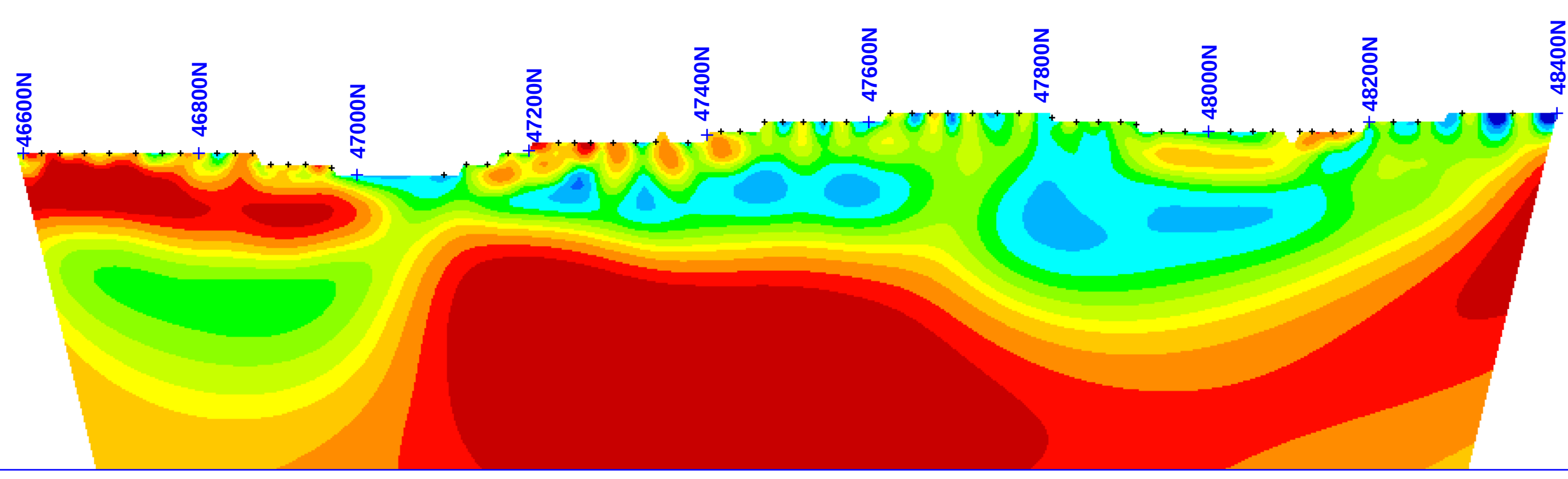
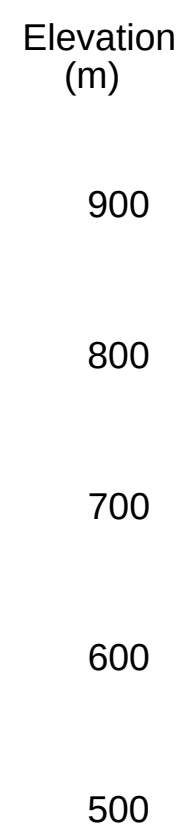
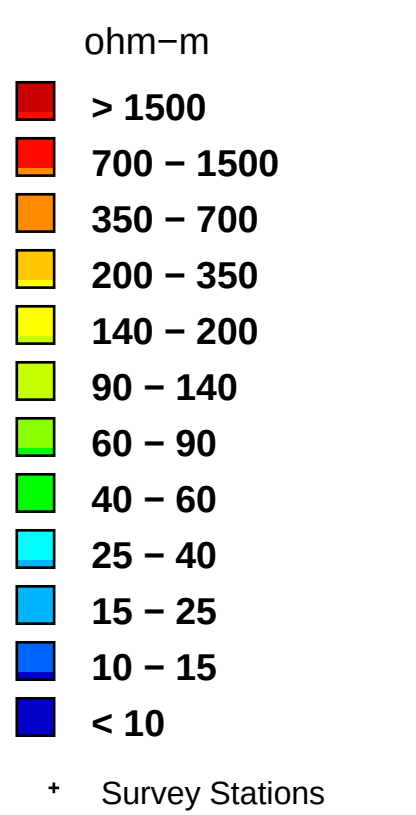
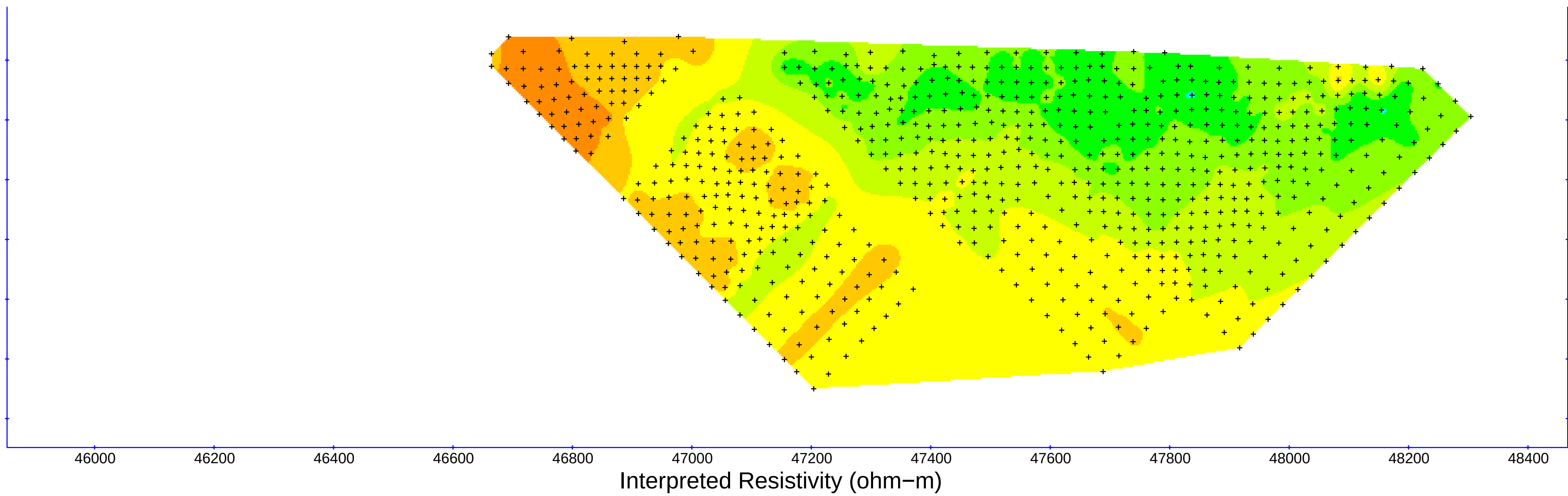
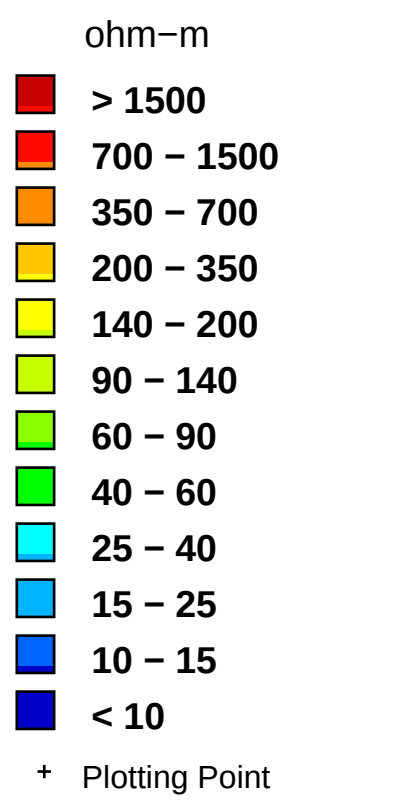
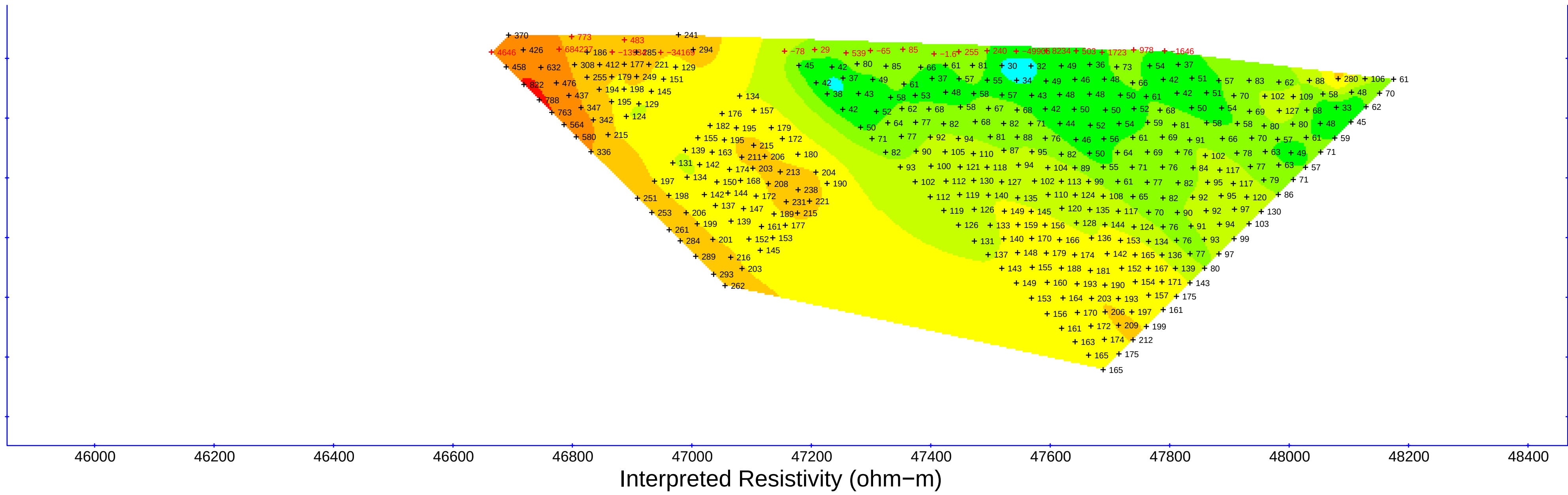
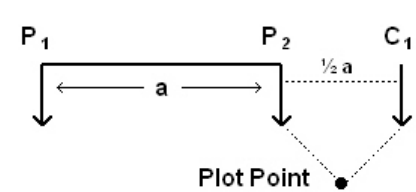
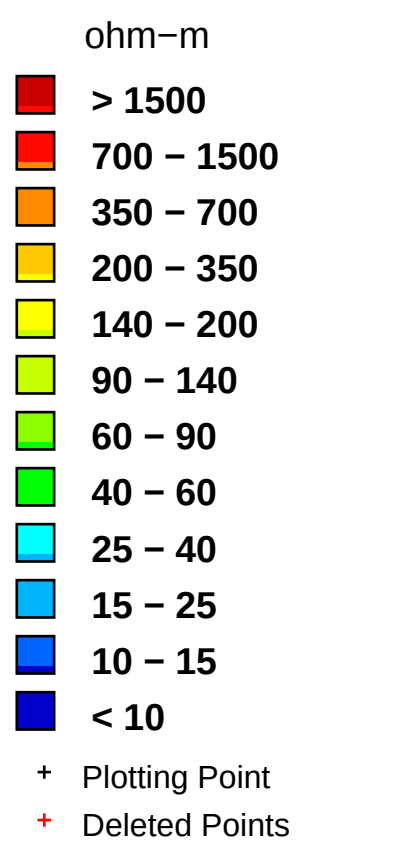
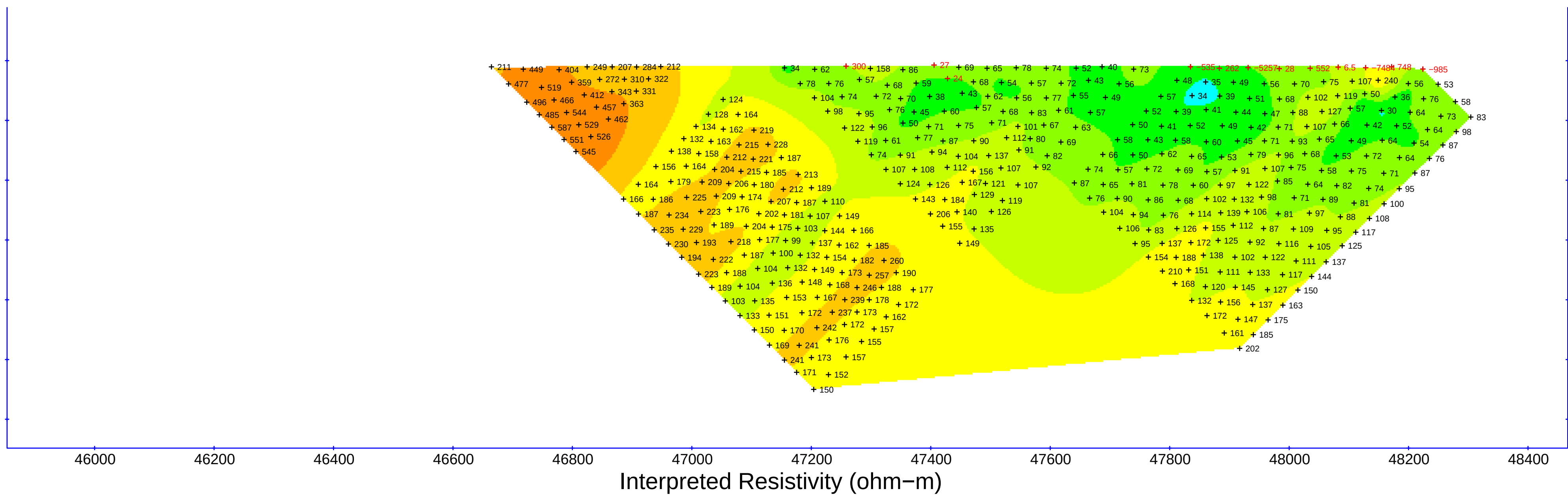
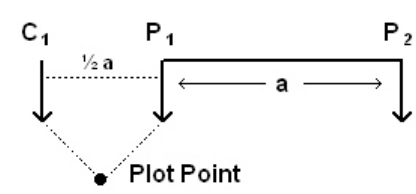
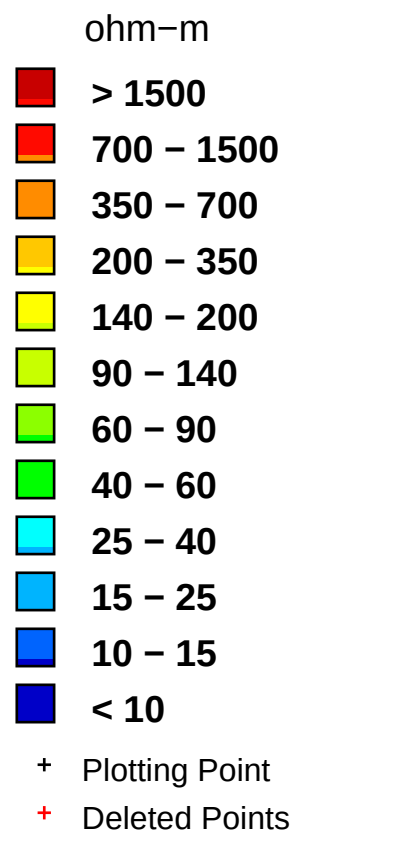
Mapping Information:
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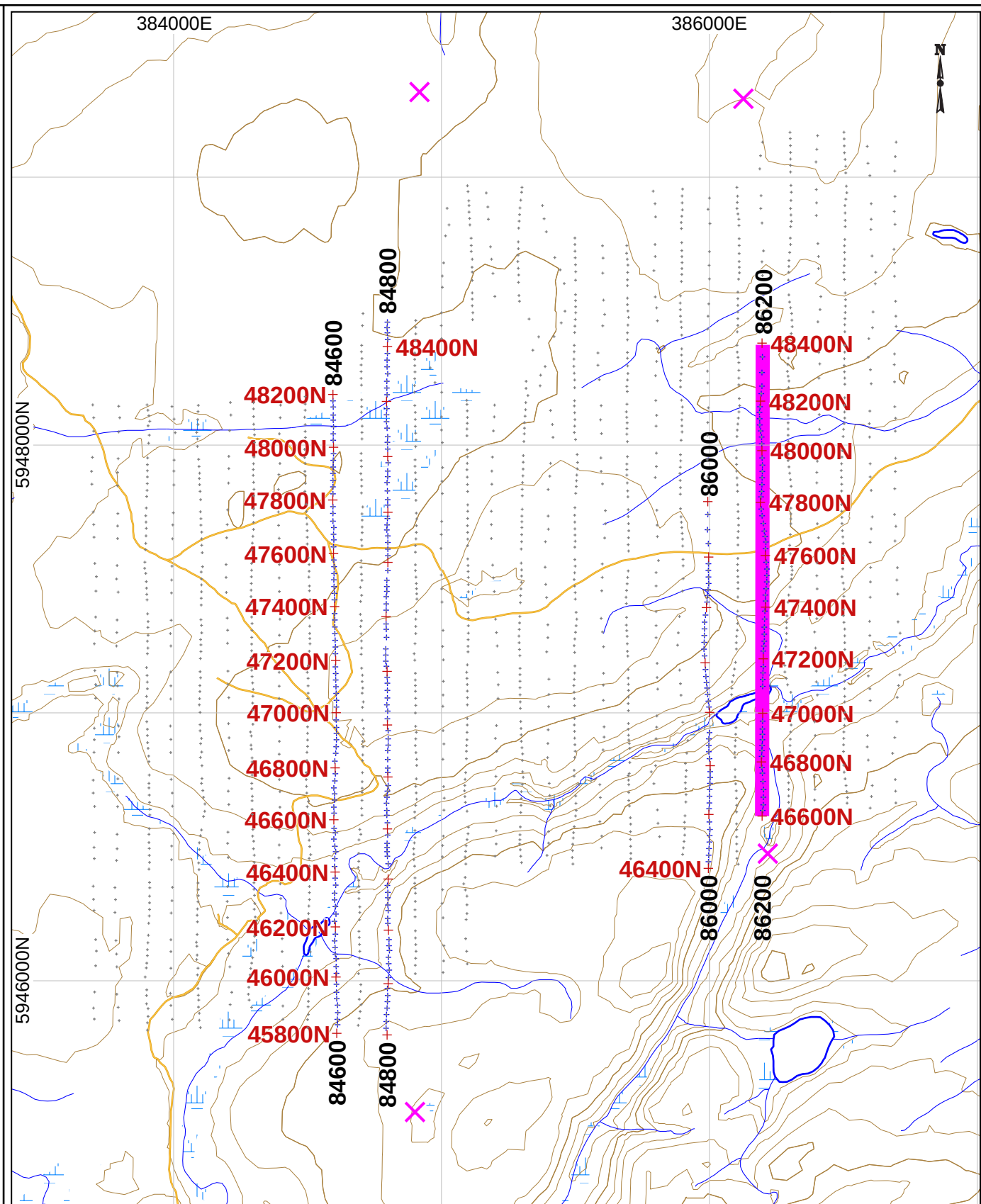
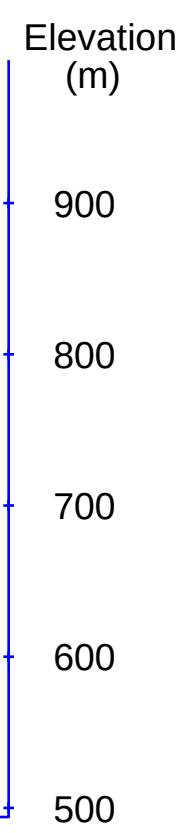
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Interpreted Resistivity (ohm-m)

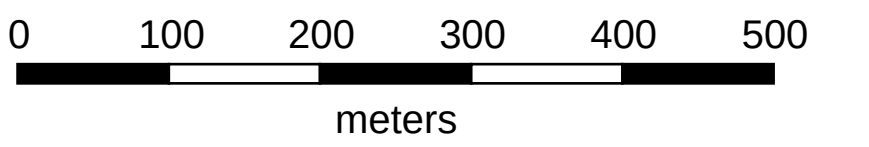


INDEX MAP: 86200E

Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-26, a=50

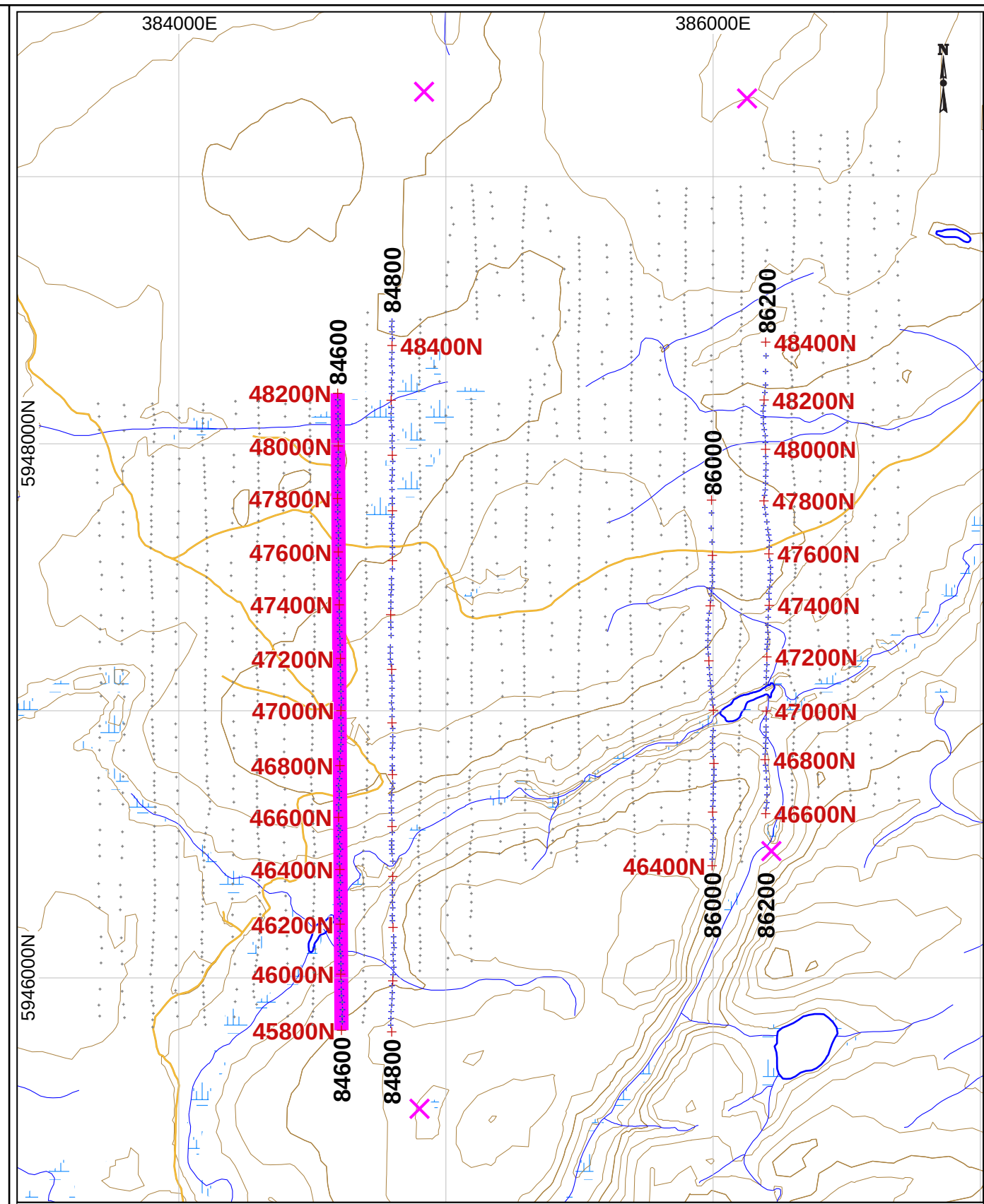
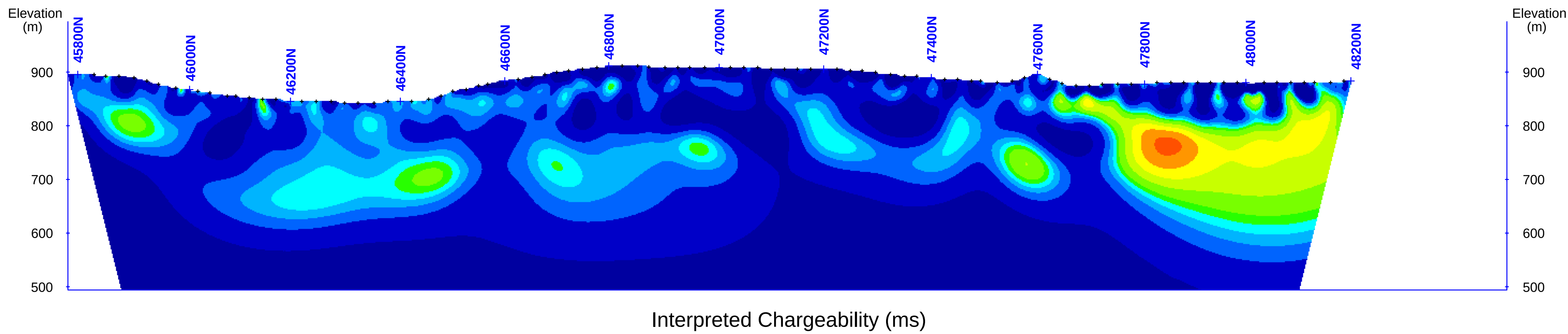
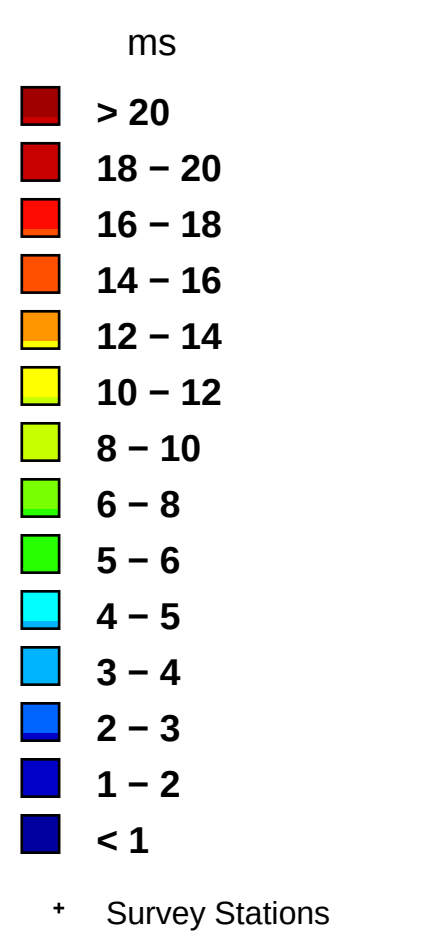
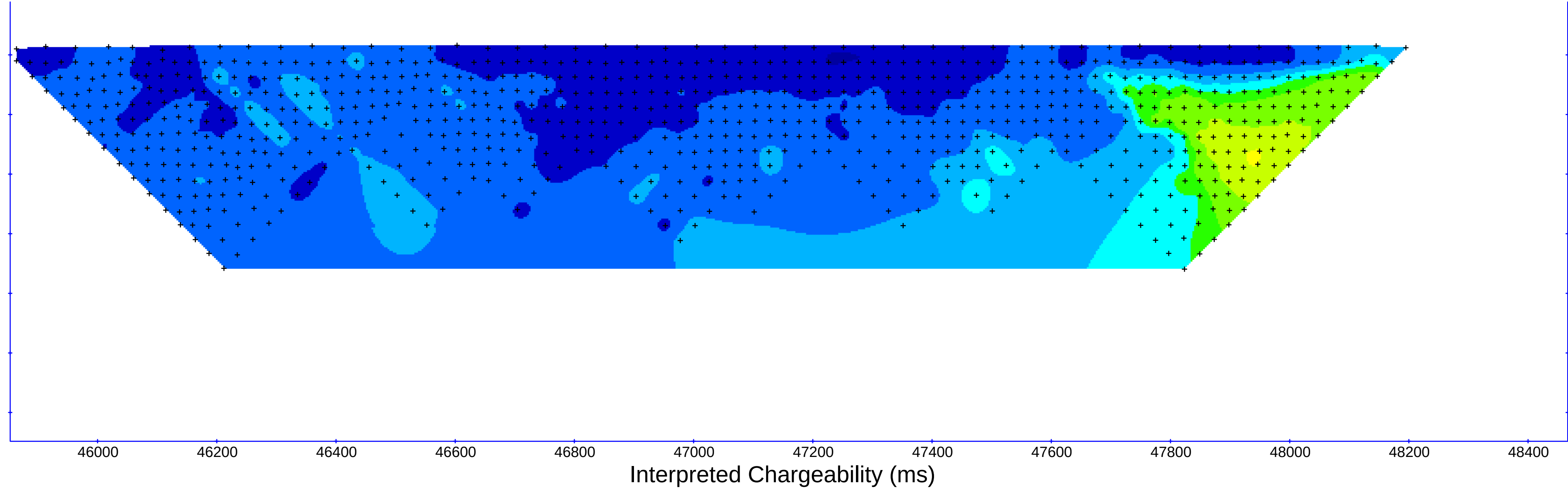
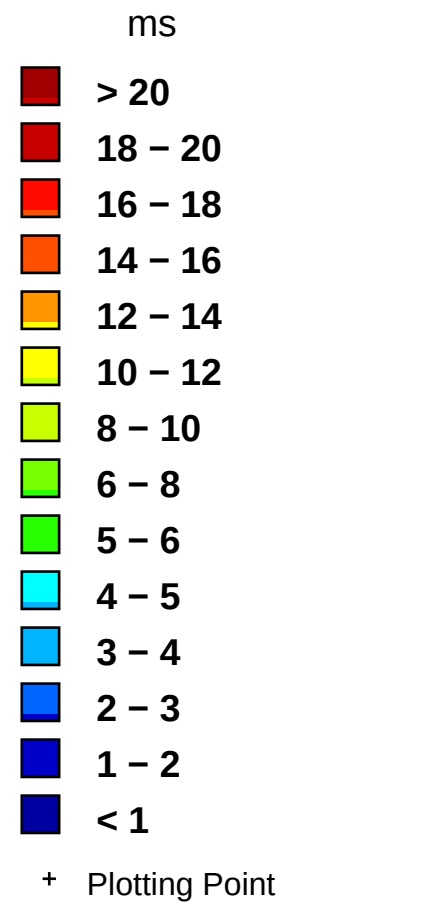
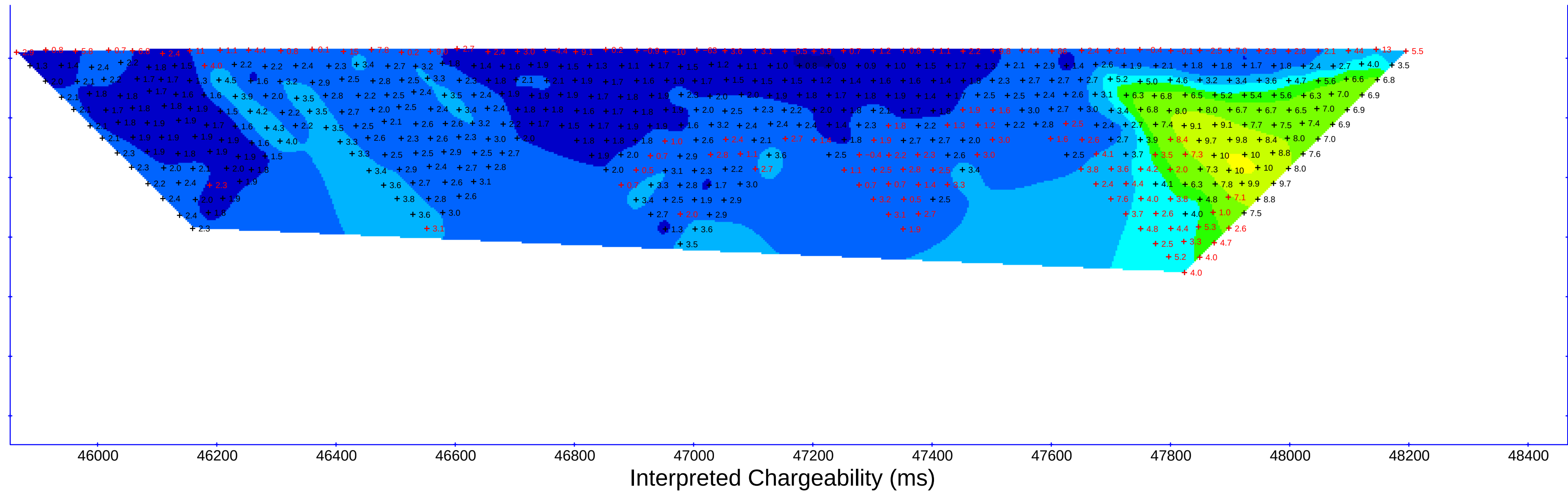
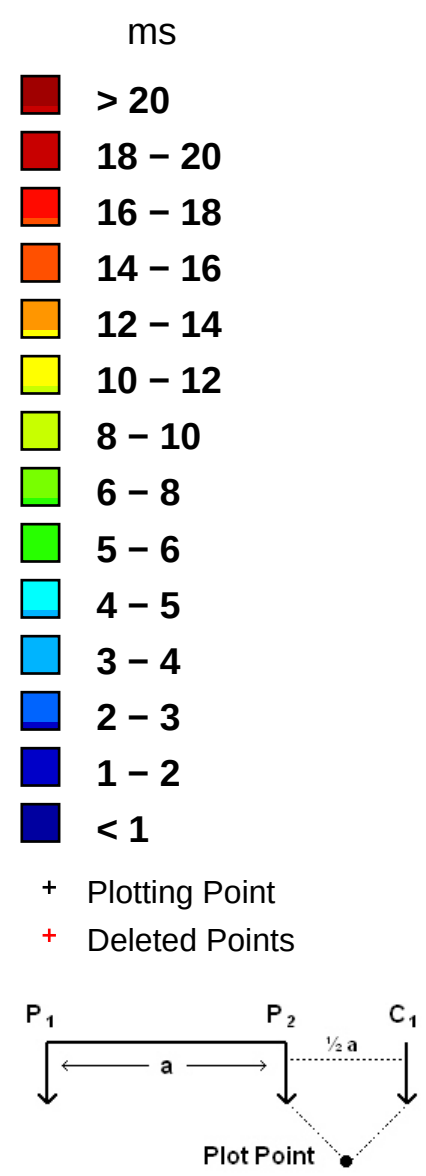
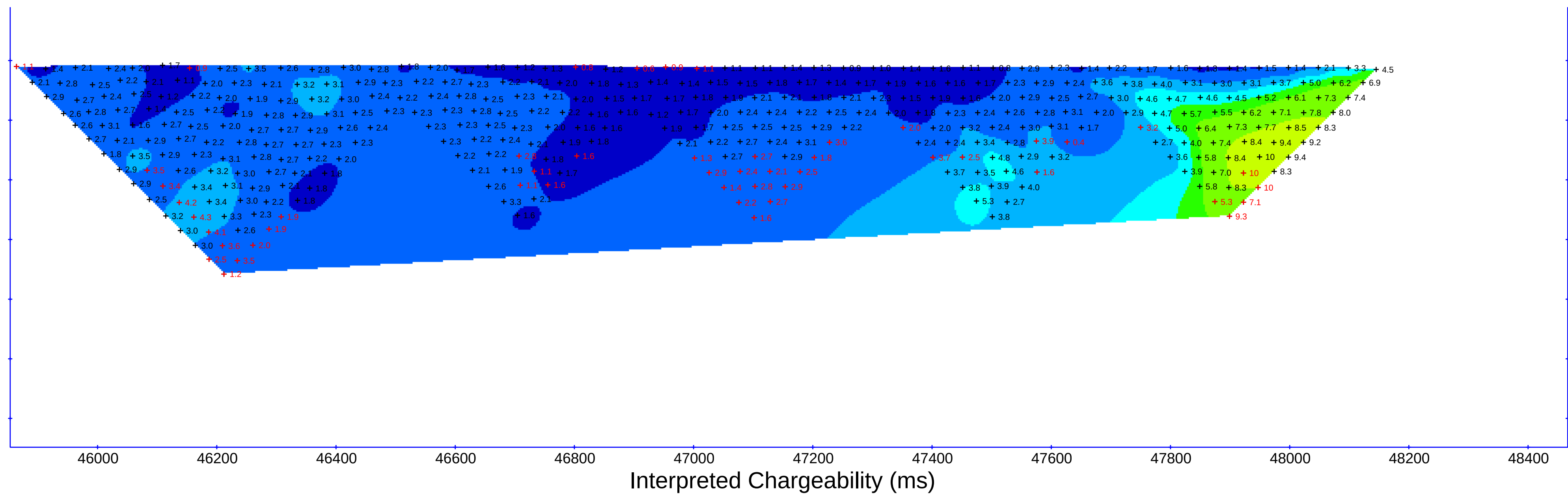
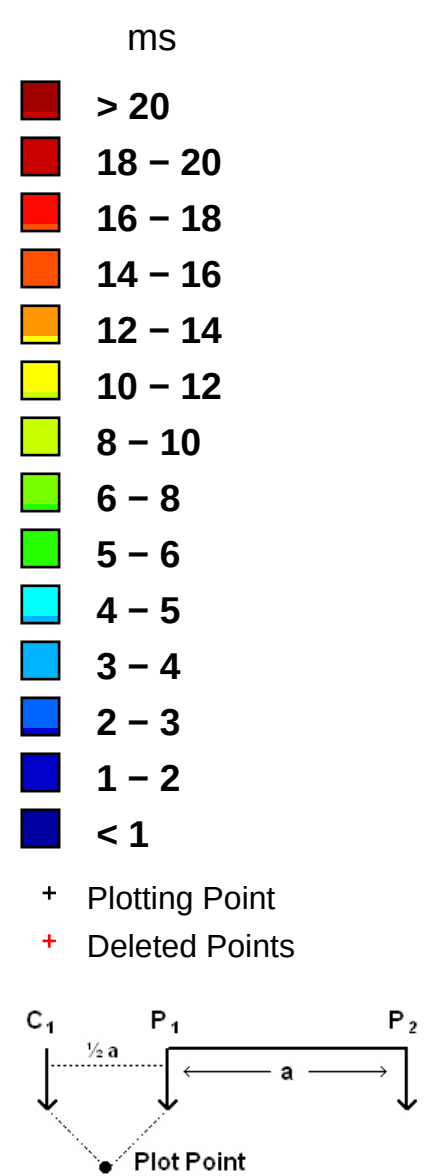
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Section Plots: Local Coordinate System
Index Map Datum: NAD83
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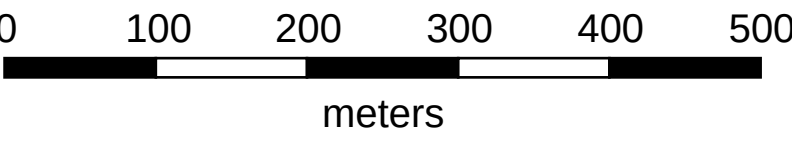
Cross Section Map
Section: 86200E



Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-16, a=50

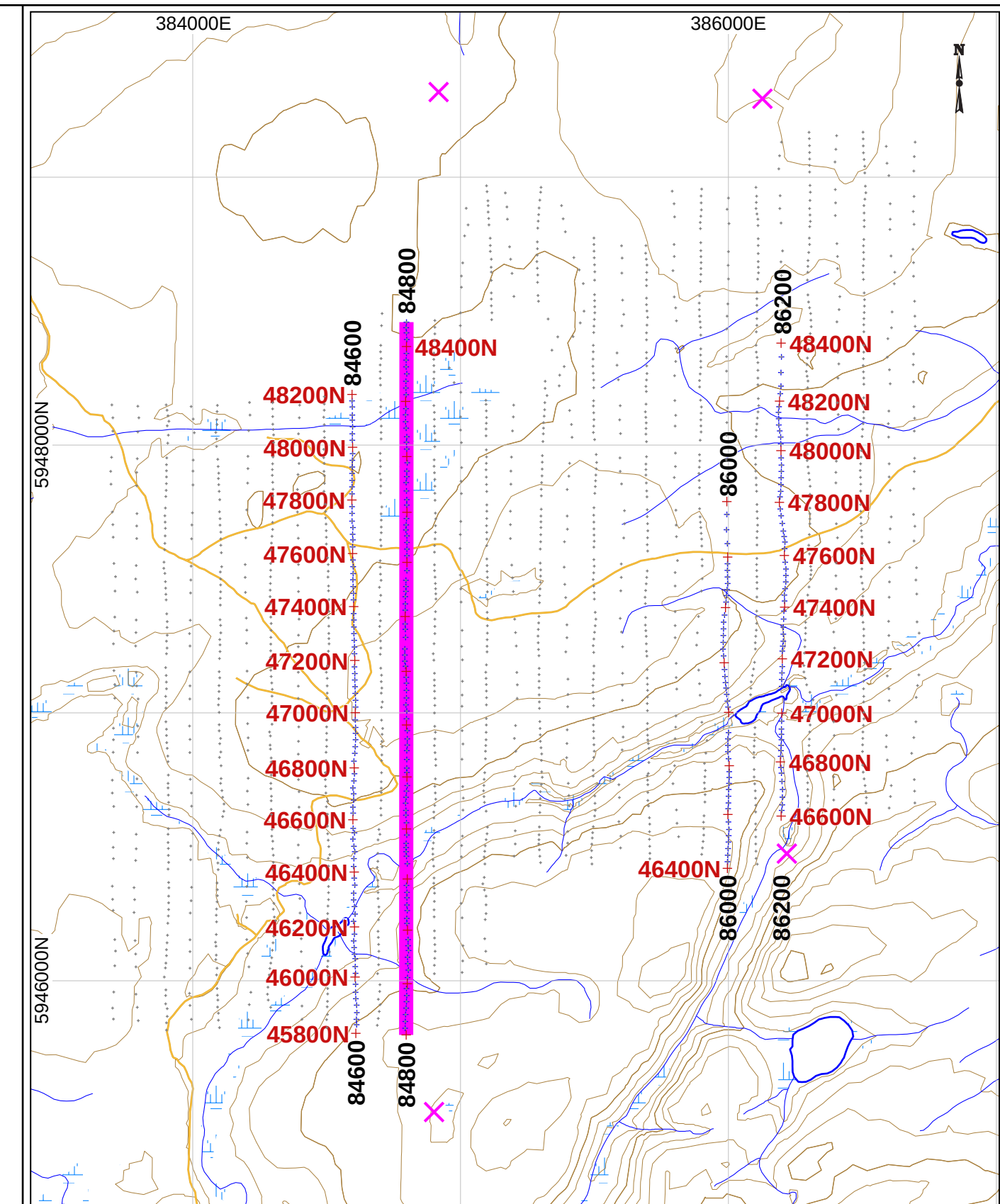
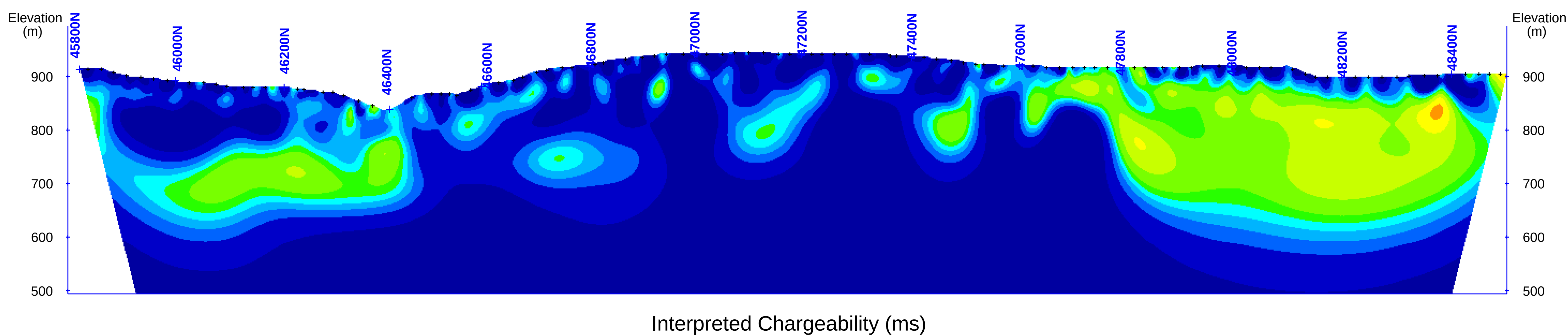
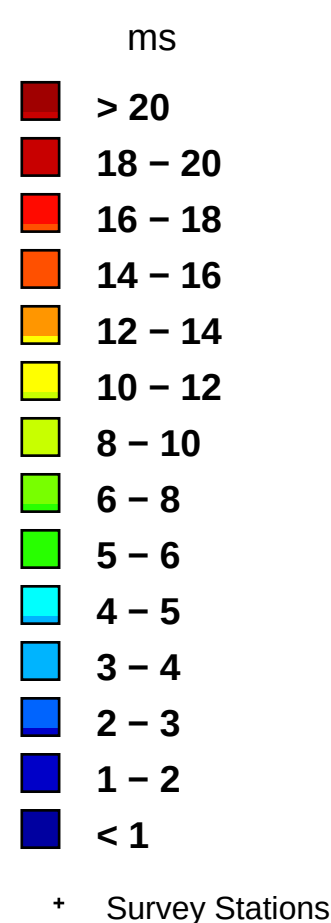
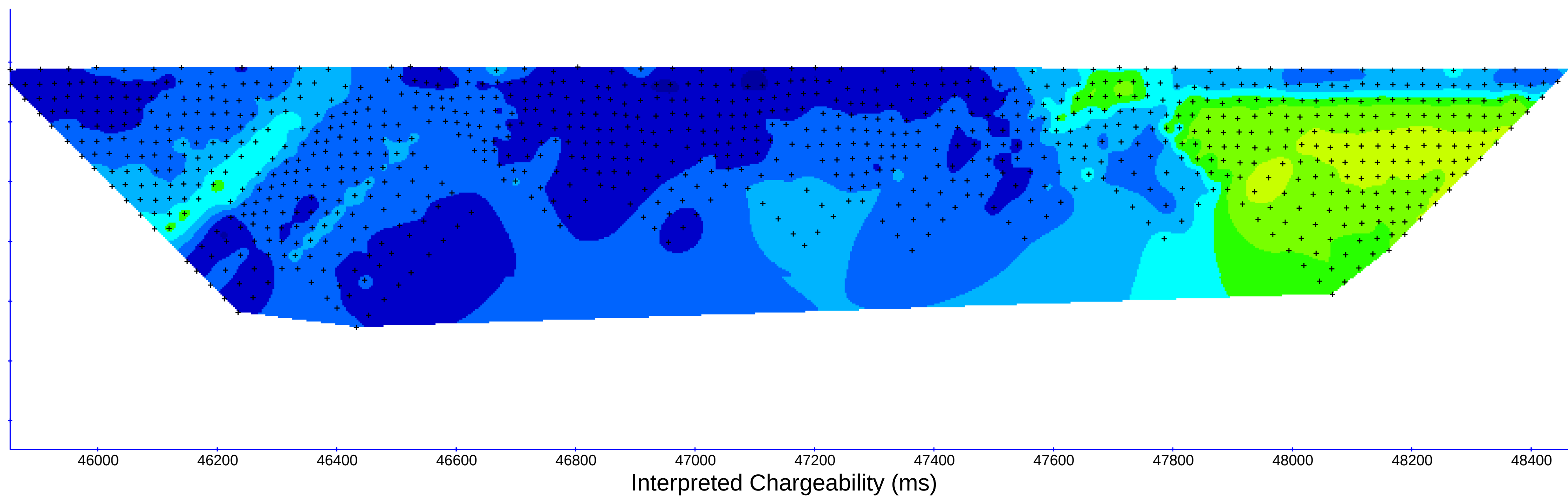
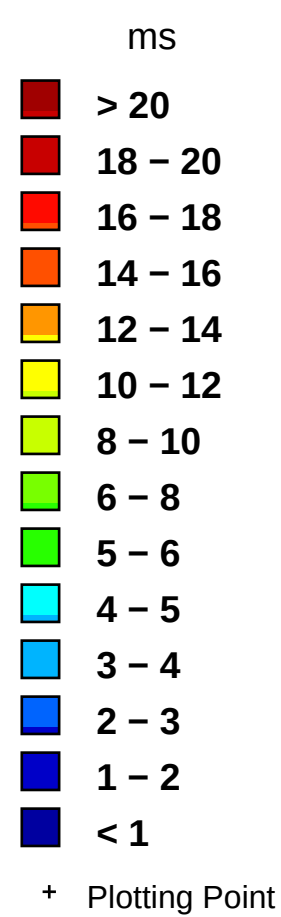
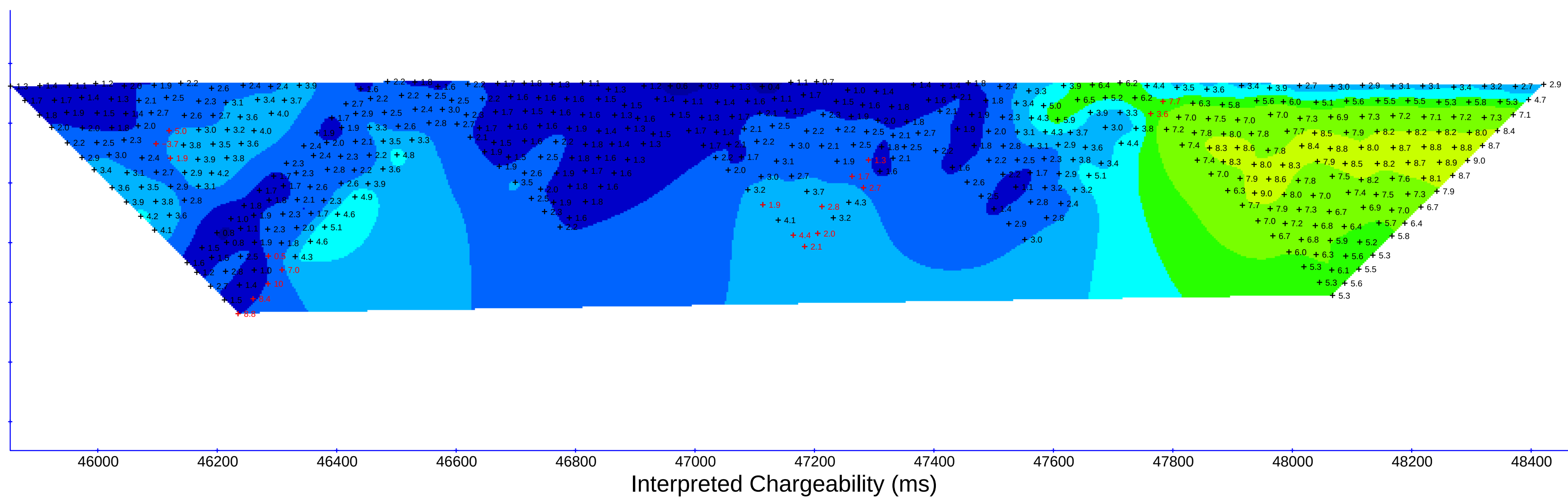
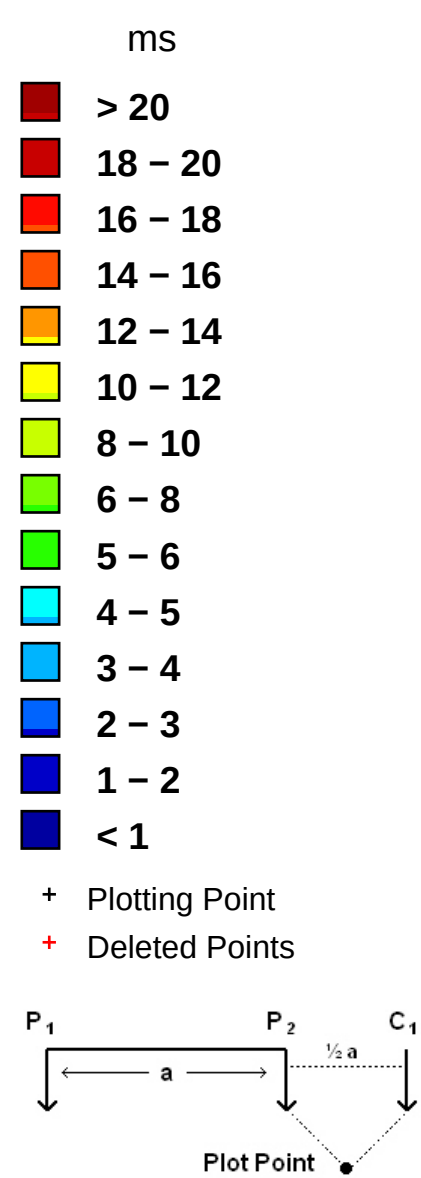
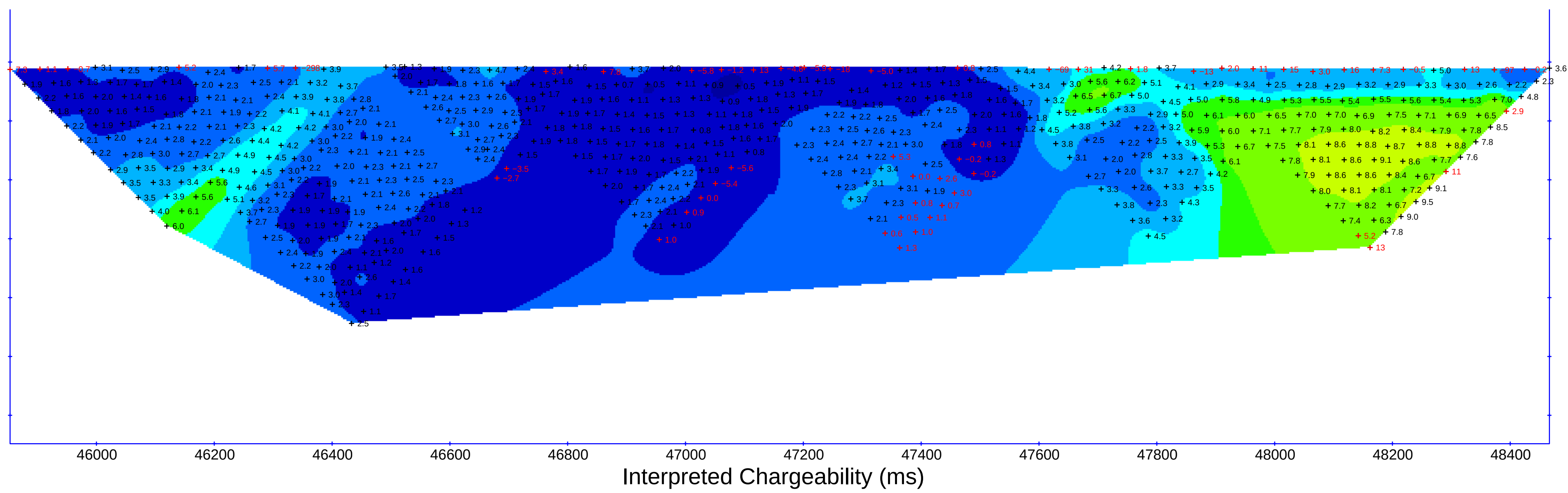
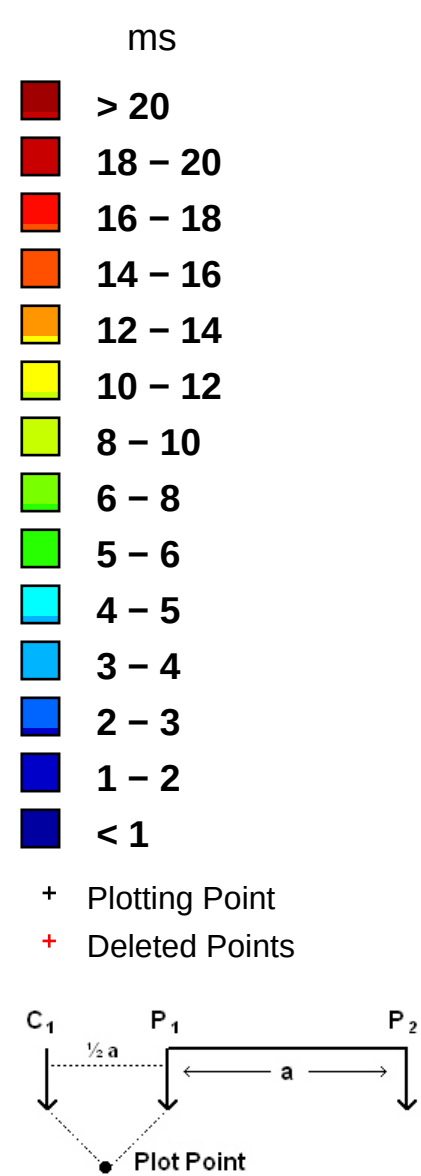
Mapping Information:
Section Plots: Local Coordinate System
Index Map Datum: NAD83
Index Map Projection: UTM Zone 10
Mapping Date: 24-Jul-2012



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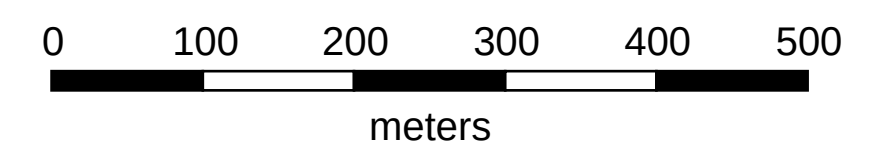
Cross Section Map
Section: 84600E



Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-16 & n=1-22, a=50

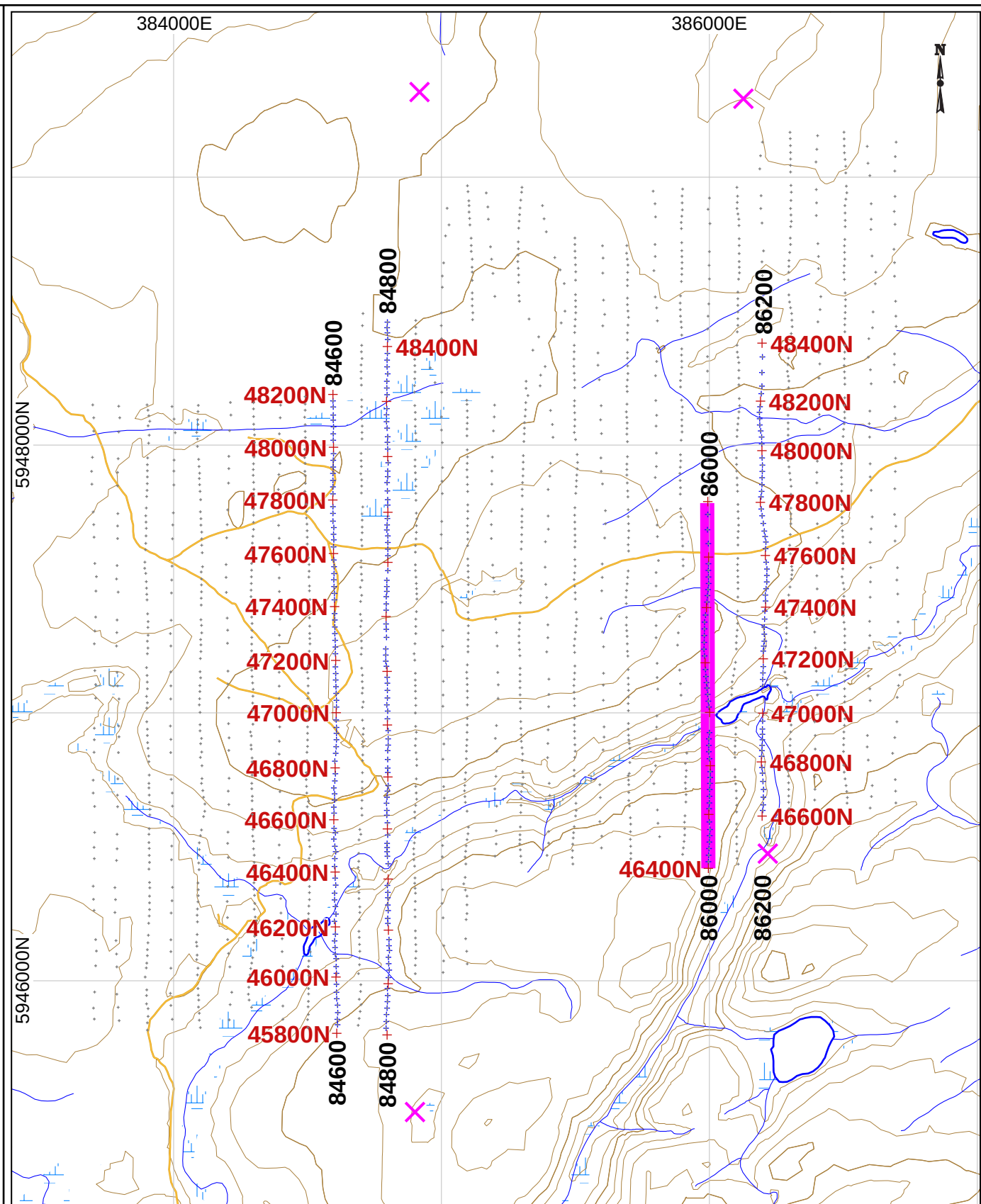
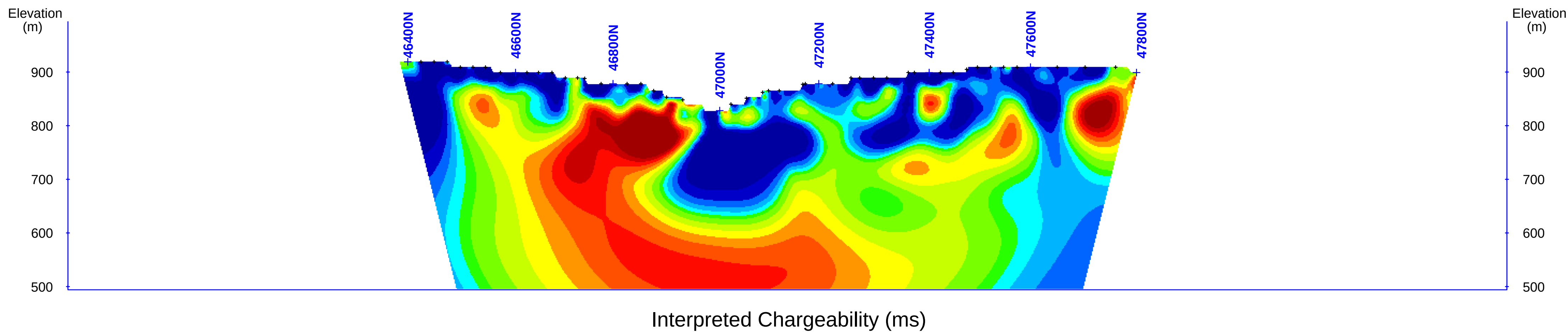
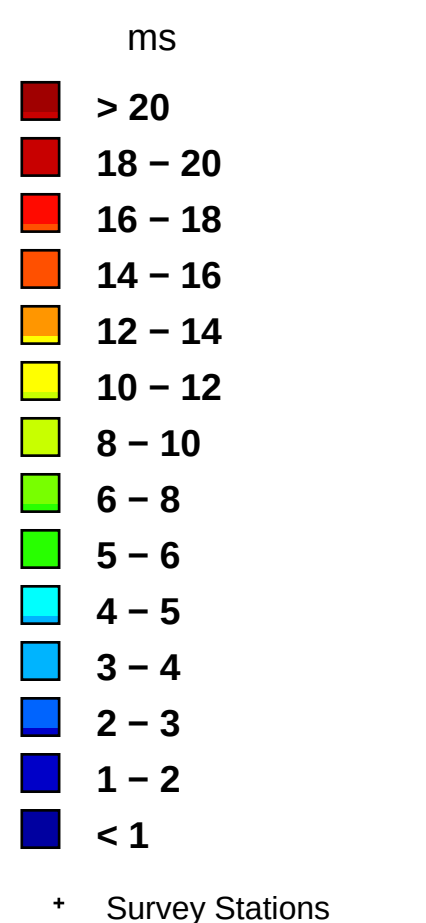
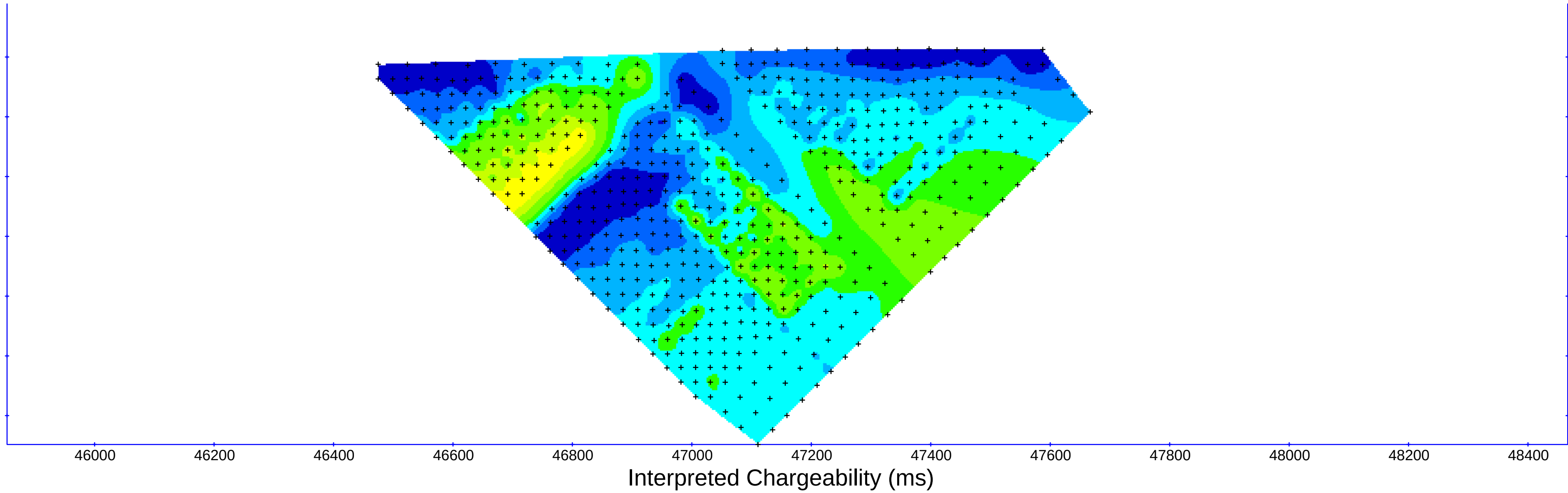
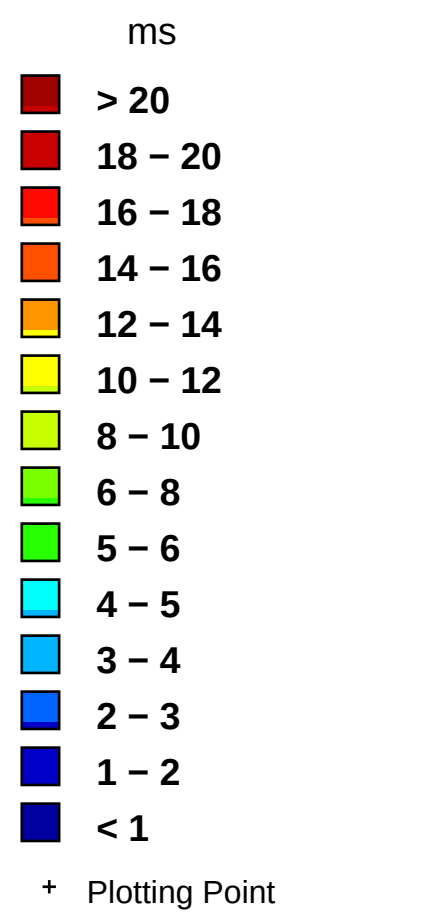
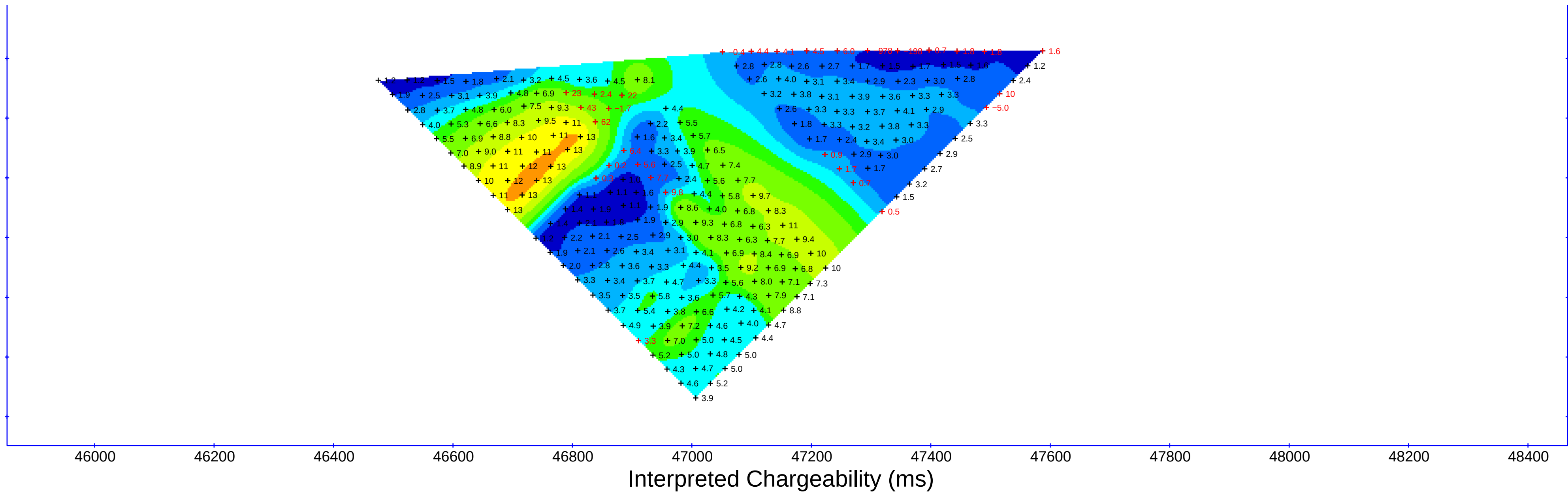
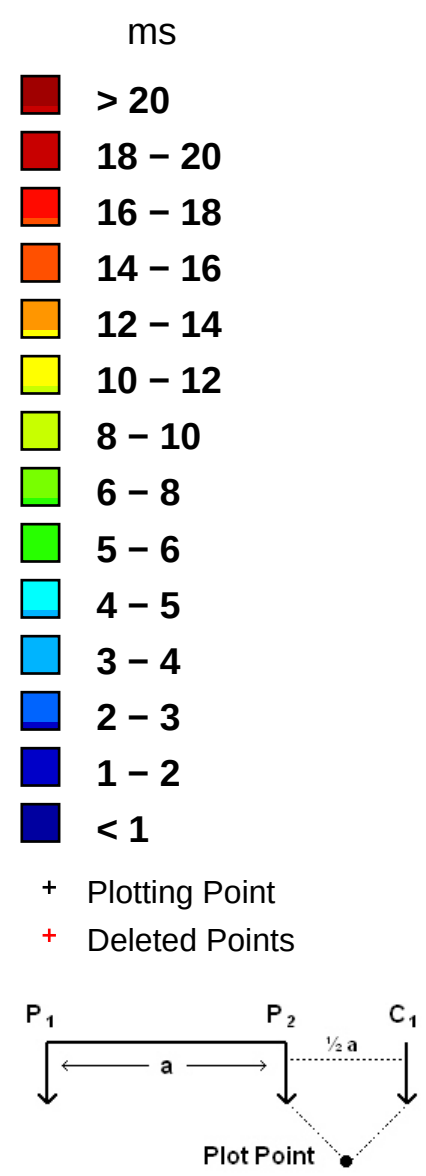
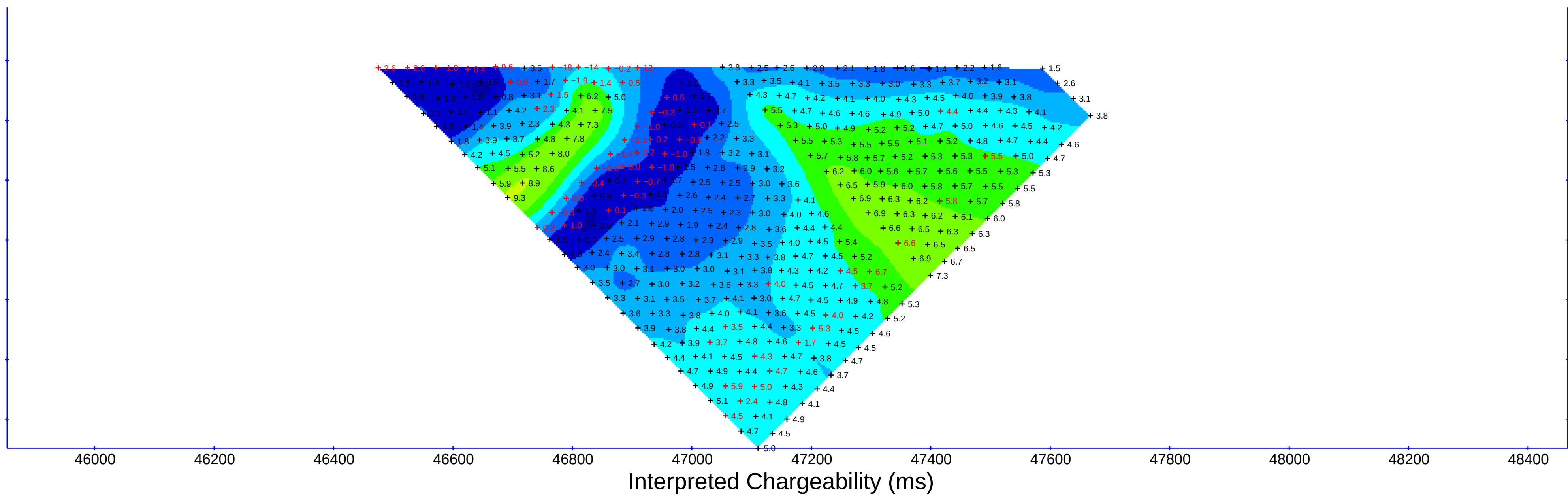
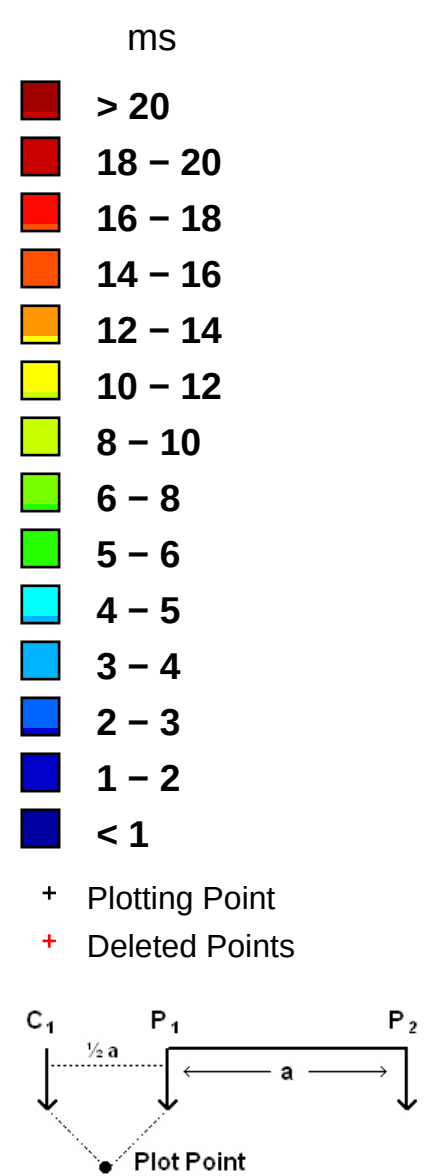
Mapping Information:
Section Plots: Local Coordinate System
Index Map Datum: NAD83
Index Map Projection: UTM Zone 10
Mapping Date: 24-Jul-2012



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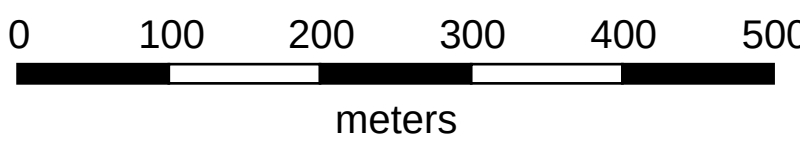


INDEX MAP: 86000E

Project Information:
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2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-26, a=50

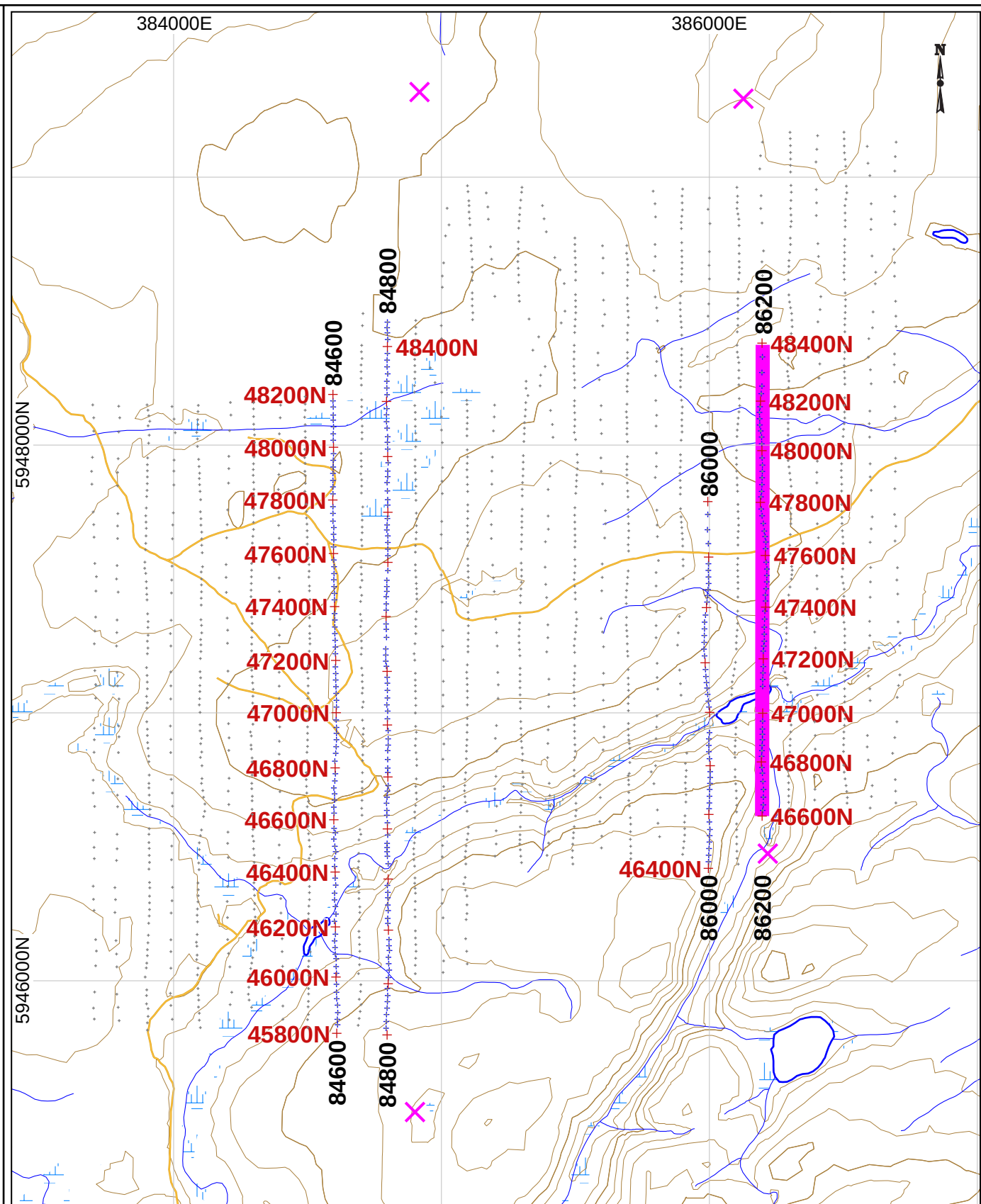
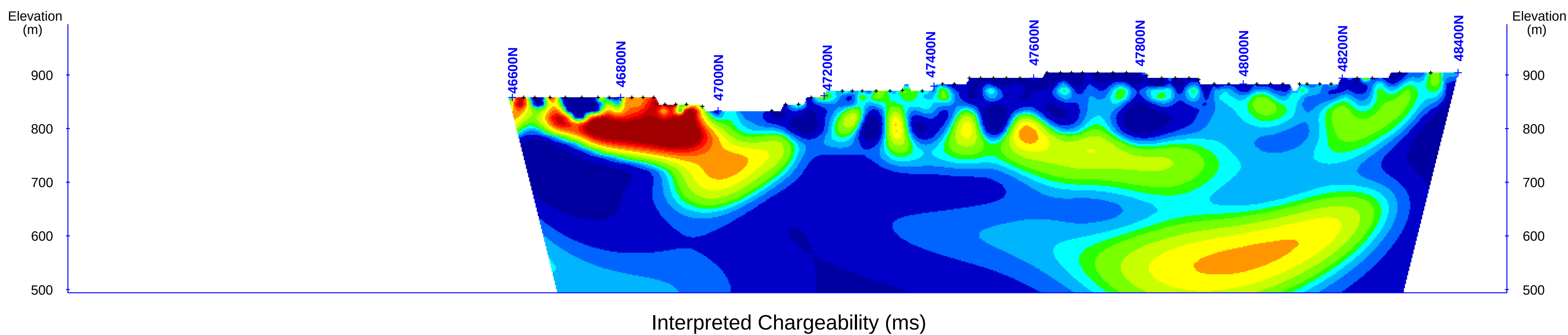
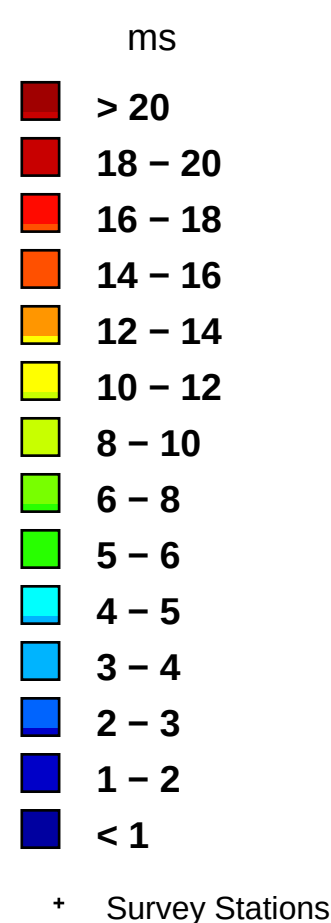
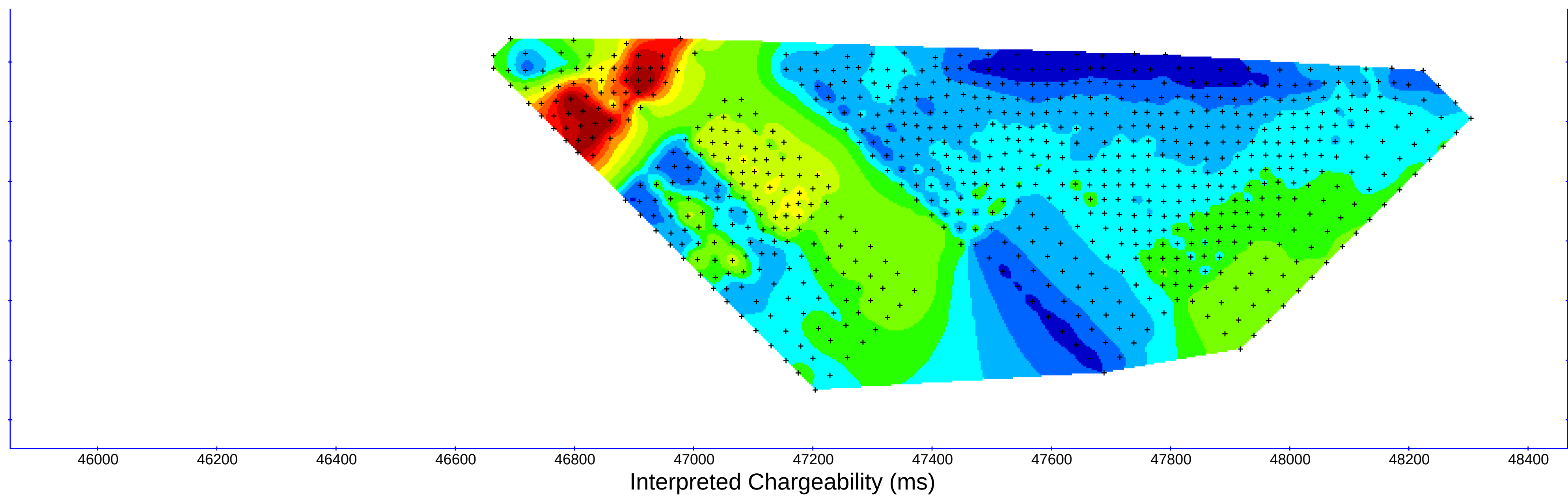
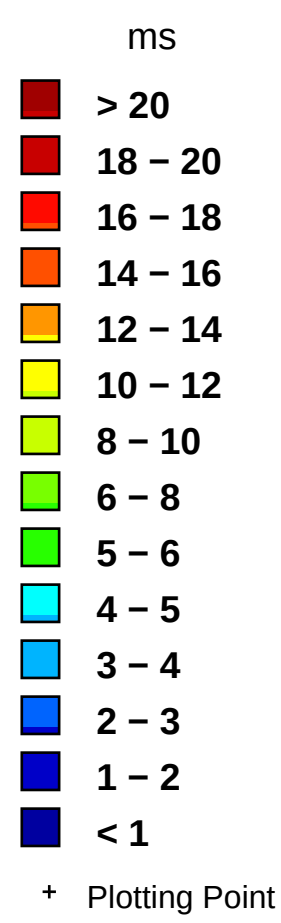
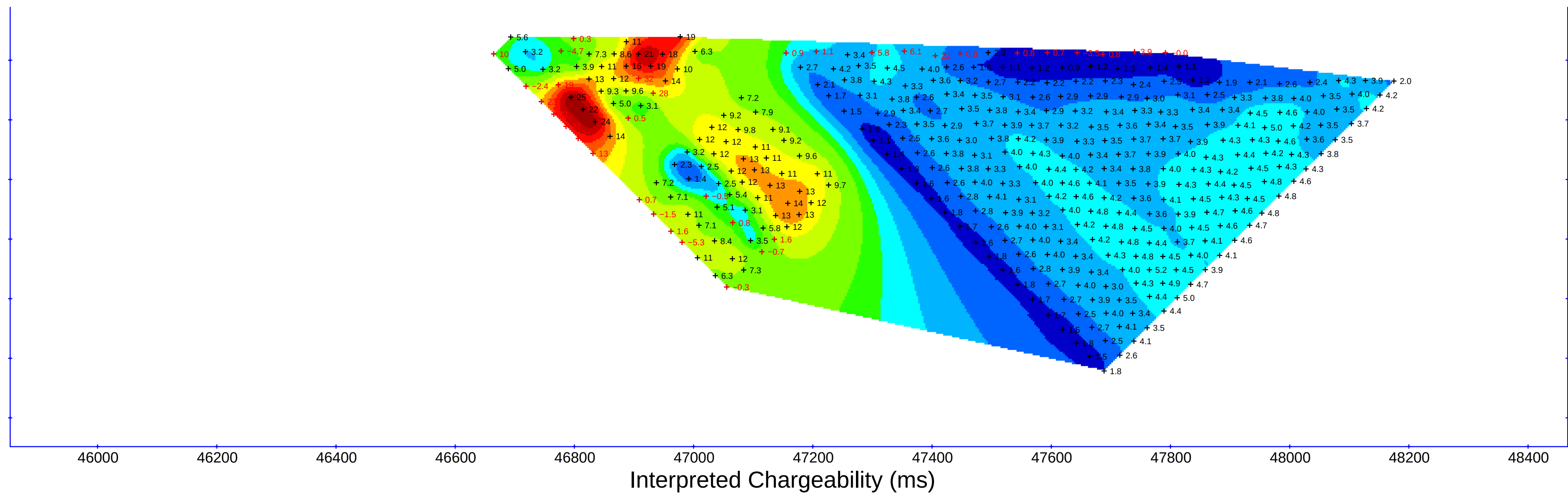
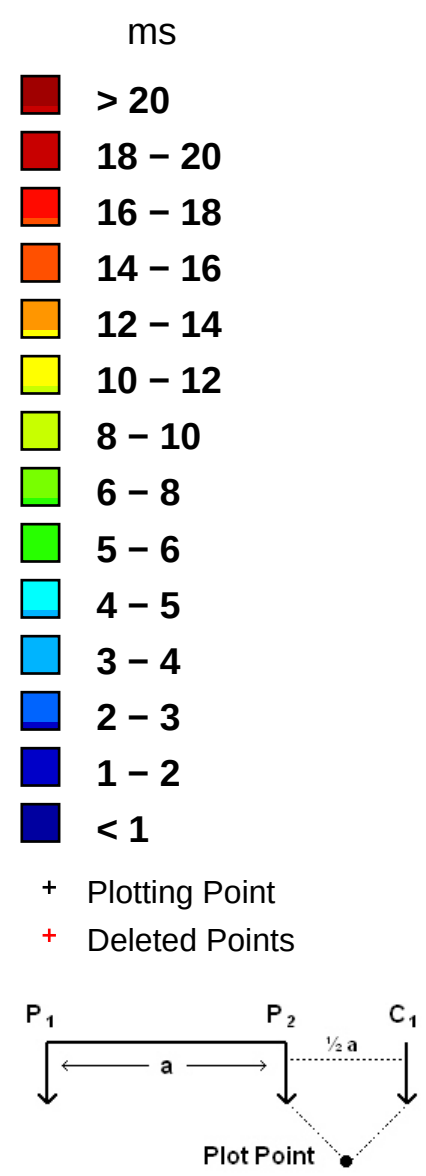
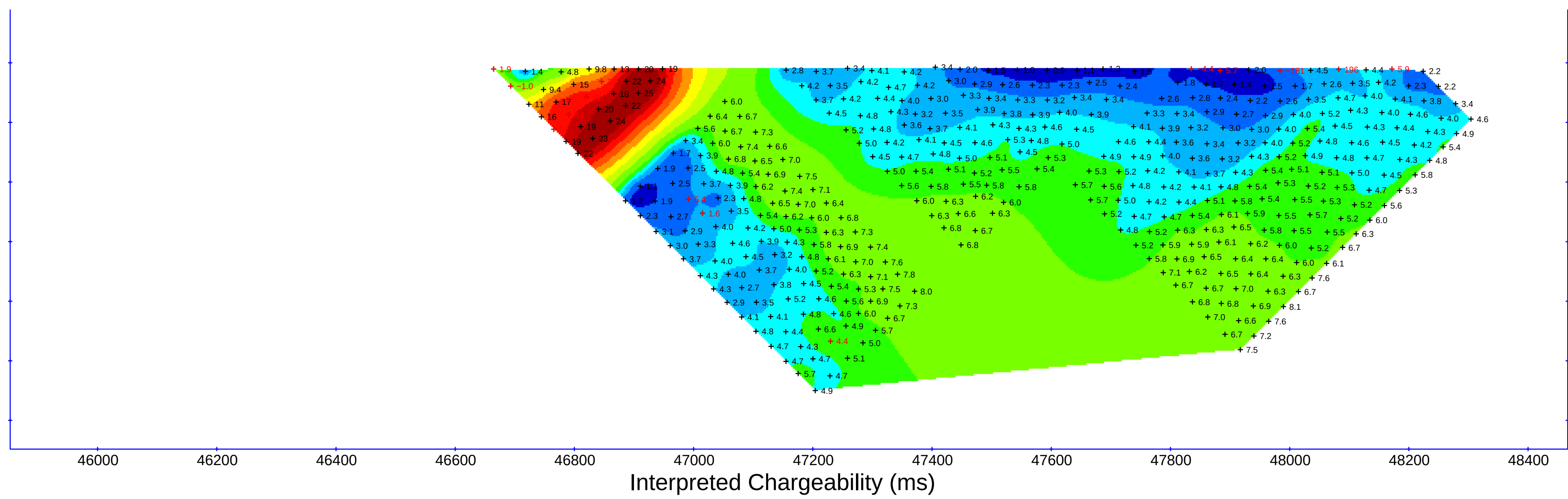
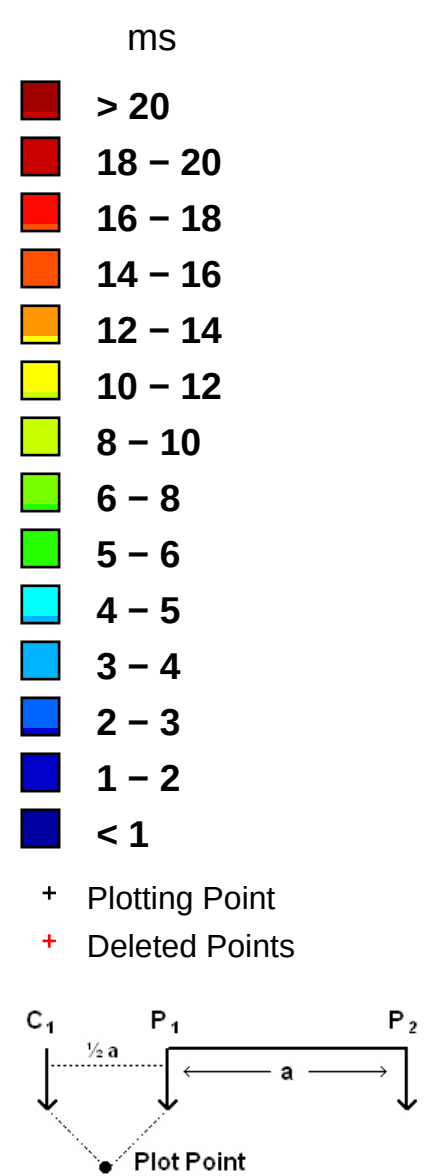
Mapping Information:
Section Plots: Local Coordinate System
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Index Map Projection: UTM Zone 10
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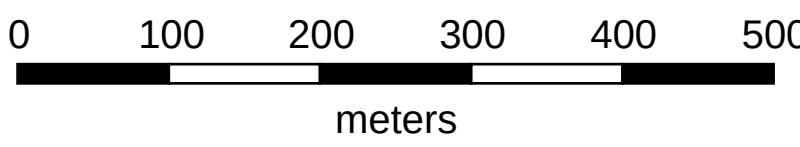


INDEX MAP: 86200E

Project Information:
Survey by: SJ Geophysics Ltd.
2D Inversion by: S.J.V. Consultants Ltd.
Survey Date: May-June 2012

Instrumentation:
Receiver: SJ-24 Full-Waveform Digital IP Receiver
Transmitter: GDD TX II, VIP 3000
Array Type: 2D, n=1-26, a=50

Mapping Information:
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Index Map Projection: UTM Zone 10
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